60
MASTER

**Distribution of Fission Products
in Peach Bottom HTGR Fuel Element F05-05**

R. P. Wichner

F. F. Dyer

W. J. Martin

L. L. Fairchild

OAK RIDGE NATIONAL LABORATORY
OPERATED BY UNION CARBIDE CORPORATION • FOR THE DEPARTMENT OF ENERGY

Printed in the United States of America Available from
National Technical Information Service
U S Department of Commerce
5285 Port Royal Road, Springfield, Virginia 22161
Price Printed Copy \$10 75, Microfiche \$3 00

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, contractors, subcontractors, or their employees makes any warranty, express or implied, nor assumes any legal liability or responsibility for any third party's use or the results of such use of any information, apparatus, product, or process disclosed in this report, nor represents that its use by such third party would not infringe privately owned rights.

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency Thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

ORNL/TM-6455
Dist. Category UC-77

Contract No. W-7405-eng-26

CHEMICAL TECHNOLOGY DIVISION

HTGR BASE TECHNOLOGY PROGRAM
HTGR Chemistry Studies (189a 01329)

DISTRIBUTION OF FISSION PRODUCTS IN PEACH BOTTOM

HTGR FUEL ELEMENT F05-05

R. P. Wichner
F. F. Dyer^{*}
W. J. Martin[†]
L. L. Fairchild

^{*}Analytical Chemistry Division.
[†]Retired.

Date Published: January 1979

OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37830
operated by
UNION CARBIDE CORPORATION
for the
DEPARTMENT OF ENERGY

NOTICE

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Department of Energy, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

~~DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED~~

224

1

2

3

4

5

6

TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT	1
1. INTRODUCTION	2
2. FUEL ELEMENT DESCRIPTION	4
2.1 Design Dimensions and Specifications	4
2.2 Operating History	4
3. PHOTOGRAPHIC DESCRIPTION AND METROLOGY	7
3.1 Visual and Photographic Examination	7
3.2 Metrology of Sleeve, Spine, and Fuel Compacts	17
4. DISTRIBUTION OF GAMMA-EMITTING RADIONUCLIDES	35
4.1 Methods and Procedures	35
4.2 Axial Distributions	35
4.2.1 Fuel compacts	35
4.2.2 Sleeve, spine, and bottom connector	41
4.3 Radial Distributions	54
5. DISTRIBUTIONS OF ^3H , ^{14}C , AND ^{90}Sr	86
6. FUEL PARTICLE EXAMINATION	86
6.1 Metallographic Examination of Fuel Compacts	100
7. REFERENCES	107
8. APPENDIX A: MEASURED AXIAL DISTRIBUTION OF GAMMA-EMITTERS IN THE SLEEVE, SPINE, AND BOTTOM CONNECTOR IN PLANES 1 AND 2	109

The fuel element examination portion of the Peach Bottom surveillance program has included the postirradiation of six Peach Bottom HTGR fuel elements. Five of these have now been reported, two for elements withdrawn prior to final reactor shutdown^{1,2} and three for end-of-life (EOL) elements³⁻⁵ which experienced 900 EFPDs of service. The surveillance program at ORNL has also been concerned with the measurement of fission product distributions in the primary coolant circuit during the operation of core 2, from 1971 through most of 1974. Results from these measurements have been reported previously.⁶

The General Atomic Company assisted in the examination work by providing engineering drawings of each fuel element and some financial support which enabled fabrication of improved hot-cell tools. The metrology work was thereby greatly enhanced and expanded. General descriptive material regarding the construction and operation of element F05-05 was obtained from the Peach Bottom HTGR Final Hazards Summary Report,⁷ the core 2 supplement to the FHSR,⁸ and a report by Turner et al.⁹ which discussed the fuel performance of core 2 after 630 EFPDs.

The authors wish to gratefully acknowledge the support provided by the Analytical Chemistry Division, particularly to personnel in the Reactor Projects Group headed by D. A. Costanzo and the Radiochemical Analyses Group headed by R. R. Rickard. J. L. Botts developed the useful method for determining failed particle fractions of fuel compact samples. Hugh Parker and P. S. Gouge performed the beta-emitter analyses on the graphite samples. L. D. Bible and W. F. Rogers skillfully operated the lathe to acquire the radial graphite specimen in a hot cell by using procedures established by L. C. Bate.

In this report, as well as previous reports in this series dealing with surveillance of fission products in the Peach Bottom Reactor, the efforts of Betty Drake, who has typed and retyped, arranged, and rearranged both text and tables, are sincerely appreciated.

2. FUEL ELEMENT DESCRIPTION

2.1 Design Dimensions and Specifications

Element F05-05 was classified according to the Peach Bottom FHSR⁷ as a type 2 driver element. As such, the middle 18 fuel compacts were of the low-rhodium variety while the top three and bottom nine were standard fuel compacts containing no rhodium. The element was similar to element E11-07² in all respects except that its dimensions were not measured before irradiation. The element was also similar to E11-07 in that it was not instrumented with thermocouples. The reader is referred to ref. 2 for details of assembly drawings of the element and to ref. 1 for an account of the composition of fuel compacts and specifications for graphite and BISO-coated fuel particles for the element. Trace levels of the chemical elements, which could be of significance in the interpretation of observed radionuclide distributions in the graphite, were measured in archive sleeve graphite and are reported in refs. 1 and 2.

By referring to Fig. 2.1 of ref. 1, one may note the location of element F05-05 in the F sector of the Peach Bottom core, adjacent to control rod element A04-01. Table 2.1-1 gives the heavy-metal contents of F05-05, as calculated with the GAUGE code, at the beginning of life (BOL) and EOL.

2.2 Operating History

Element E01-01 operated from core 2 startup on July 15, 1970, until end of core life, October 31, 1974. An approximation of the power history of core 2 is given in Table 2.2-1.⁹ Using a rated full-power level of 115.5 MW(t), this EOL fuel element experienced 897 EFPDs of operation. It should be noted that element E06-01 was removed from the reactor (384 EFPDs) during the 162-day shutdown period, and element E11-07 was removed (701 EFPDs) during the 114-day shutdown. Results of the postirradiation examinations of these fuel elements are reported in refs. 1 and 2 respectively.

Table 2.1-1. Heavy-metal loadings for element F05-05

Nuclide	BOL (0.0 EFPDs) nuclide weight (g)	EOL (897.3 EFPDs) nuclide weight (g)
^{232}Th	1373.757	1313.42
^{231}Pa	0	0.008
$^{233}\text{U}^{\text{a}}$	0	34.03
^{234}U bred	0	3.199
^{235}U bred	0	0.407
^{234}U fed	3.743	2.433
^{235}U fed	232.456	98.280
^{236}U	1.248	28.08
^{238}U	12.103	10.33
^{237}Np	0	2.33
^{238}Pu	0	c
$^{239}\text{Pu}^{\text{b}}$	0	0.28
^{240}Pu	0	0.10
^{241}Pu	0	0.16

^aIncludes ^{233}Pa .

^bIncludes ^{239}Np .

^cNot calculated.

Table 2.2-1. Approximate power history of Peach Bottom Reactor
during operation with fuel element F05-05^a

Date	Core power [MW(t)]	Time at power (days)	Equivalent full- power days (EFPDs)	Cumulative EFPDs
July 15, 1970				
	108	92	27	27
	107	39	36	63
	92	7	6	69
	109	141	133	202
	96	60	50	252
	Shutdown	80	0	252
	94	56	46	298
	93	56	45	343
	Shutdown	22	0	343
	103	47	42	385
	Shutdown	162	0	385
	91	146	115	500
	Shutdown	46	0	500
	92	81	64	564
	103	52	46	610
	Shutdown	20	0	610
	106	99	91	701
	Shutdown	114	0	701
	107	51	47	748
	92	50	40	788
	92	37	30	818
	Shutdown	38	0	818
	65	30	17	835
	92	29	23	858
	79	47	32	890
	67	12	7	897
Oct. 30, 1974				

^aFrom ref. 10.

3. PHOTOGRAPHIC DESCRIPTION AND METROLOGY

3.1 Visual and Photographic Examination

The element was visually examined before and during various stages of dissection, and representative normal features and appearances were noted and photographed. In addition, all abnormal features such as cracks in the compact and graphite spallation were photographed.

The outside of the element appeared to be normal, as seen in the photographs of Figs. 3.1-1 and 3.1-2 of the top and bottom portion of the element. Soot deposits on the top reflector and spacer rings were present in amounts that appeared to be comparable to those found on fuel elements E11-07² and E14-01.³ During initial dissection, the element was transversely cut at four axial locations so as to divide it into five parts consisting of the top and bottom reflectors and three sleeve sections, each section containing ten fuel compacts and one spine piece. Details of the disassembly of the element and the cutting procedures, which made use of a remotely operated reciprocating hacksaw, were the same as those used for fuel element E14-01, and are described in ref. 3. Dimensional measurements made during dissection are discussed in Sect. 3.2 of this report.

Figures 3.1-3 through 3.1-14 show external views of the 30 fuel compacts upon disassembly with their corresponding section of spine. In these photographs, the plane containing the element serial number (Fig. 3.1-2) was oriented toward the camera. This side was designated the "zero azimuth side" in the metrology tables which follow in Sect. 3.2. On visual observation, the compact and spine surfaces did not seem to be as bright as the fuel compacts of element E14-01.³ Considerable pitting of the compact surfaces is apparent in the figures, but this feature does not appear to be different between regions of high temperature and low temperature. Cracks in compacts 9, 24, and 30 are visible in Figs. 3.1-5, 3.1-12, and 3.1-14. Figure 3.1-15 shows a view of the compact regions 21 to 23 rotated 90° from that shown in Fig. 3.1-11. The close-up (bottom photo) illustrates what appears to be a spallation of the surface spine graphite.

Fig. 3.1-1. Photograph of the upper portions of element F05-05 during disassembly.

R-71532

Fig. 3.1-2. View of the bottom portion of element F05-05.

Fig. 3.1-3. Compacts 1, 2, 3, and associated spine disassembly.

Fig. 3.1-4. Compacts 4, 5, 6, and associated spine.

R-71536

Fig. 3.1-5. Compacts 7, 8, 9, and associated

R-71537

Fig. 3.1-6. Compacts 8, 9, 10, and associated spine.

Fig. 3.1-7. Compacts 11, 12, 13, and associated spine.

Fig. 3.1-8. Compacts 14, 15, 16, and associated spine.

Fig. 3.1-9. Compacts 17, 18, 19, and associated spine.

Fig. 3.1-10. Compacts 18, 19, 20, and associated spine.

Fig. 3.1-11. Compacts 21, 22, 23, and associated spine.

Fig. 3.1-12. Compacts 24, 25, 26, and associated spine.

Fig. 3.1-13. Compacts 27, 28, 29, and associated spine.

Fig. 3.1-14. Compacts 28, 29, 30, and associated spine.

Fig. 3.1-15. Top: compacts 21, 22, 23, and associated spine rotated 90° from view in Fig. 3.1-11. Bottom: region of spine opposite compact 22; magnification 10X.

Compacts 1, 9, 18, 24, and 30 were selected for more-detailed photographic documentation; views of both ends and the zero azimuth and opposite sides are presented in Figs. 3.1-16 through 3.1-25. Note that cracking to various extents is visible in each of these compacts except compact 1.

3.2 Metrology of Sleeve, Spine, and Fuel Compacts

No preirradiation dimensional measurements of fuel element F05-05 were made. The results of postirradiation measurements, which are summarized in Tables 3.2-1 through 3.2-7, include: (1) the overall length of the element and the so-called fuel axial expansion gap, which is the free distance between the top of compact 30 and the bottom of the upper reflector assembly; (2) the outside and inside diameters of the sleeve at five axial locations; (3) measured sleeve wall thicknesses; (4) the diameters of the spine pieces at each of three locations, and the length of each spine piece; (5) the outside and inside diameters of five fuel compacts, each in four different planes; (6) wall thicknesses of five fuel compacts; and (7) the lengths of each of the 30 fuel compacts. The reader is directed to ref. 3 for an account of the measurement methods that were used.

Table 3.2-1 lists the postirradiation length of the fuel element, the measured length of the fuel region, and the axial expansion gap for the fuel, along with nominal values of these quantities for the unirradiated fuel element. Comparison with nominal preirradiation dimensions indicates that the total element length decreased during operation by about 1.0%. A comparison of the measured length of the fuel axial expansion gap after irradiation with the nominal length before irradiation indicates that the gap decreased by about 0.85 in. These measurements suggest that the decrease in the expansion gap was due to approximately equal shortening of the sleeve and expansion of the fuel compacts. The estimated changes in the length of the element and the gap seem to be consistent with observations made on previously examined fuel elements.^{2,3}

Table 3.2-2 presents the dimensions of the sleeve, including outer diameter and inner diameter determined at locations adjacent to compacts 1, 9, 18, 24, and 30. The outer diameters and wall thicknesses were measured at four azimuthal orientations, separated by 90°, by procedures described

Fig. 3.1-16. Close-up view of compact 1 from the top (upper figure) and bottom (lower figure).

R-72535

R-72534

Fig. 3.1-17. Side view of compact 1 from 0° side (top) and 180° side (bottom). (0° signifies the plane containing the identification number.)

Fig. 3.1-18. View of compact 9 from the top (upper figure) and bottom (lower figure).

Fig. 3.1-19. Lateral view of compact 9 from the 0° side (top) and 180° side (bottom).

Fig. 3.1-20. View of compact 18 from the top (upper figure) and bottom (lower figure).

Fig. 3.1-21. Lateral view of compact 18 from the 0° side (top) and 180° side (bottom).

Fig. 3.1-22. View of compact 24 from top (upper figure) and bottom (lower figure).

R-72547

R-72546

Fig. 3.1-23. Lateral view of compact 24 from the 0° side (top) and 180° side (bottom).

Fig. 3.1-24. View of compact 30 from the top (upper figure) and bottom (lower figure).

Fig. 3.1-25. Lateral view of compact 30 from the 0° side (top) and 180° side (bottom).

Table 3.2-1. Overall element length, fuel axial expansion gap, and overall length of the fuel region

	Nominal preirradiation value ^a (in.)	Postirradiation value (in.)	Difference (in.)	Percent difference ^b
Overall length of element	144.0	143.25	-0.75	-1.0
Axial expansion gap	4.6	3.75	-0.85	-0.2
Total length of fuel compacts	90.0	90.0	0	0

^aValues were taken from design specifications of Peach Bottom fuel elements.

^bNegative value denotes a decrease in value.

Table 3.2-2. Postirradiation outside and inside diameters
of F05-05 sleeve (in.)

Compact	Azimuth				Average	Percent change ^b
	0° ^a	90°	180°	270°		
Outside diameters						
1	3.4832	3.4811	3.4800	3.4835	3.4820	-0.09
9	3.4760	3.4765	3.4693	3.4760	3.4745	-0.30
18	3.4705	3.4707	3.4730	3.4707	3.4712	-0.40
24	3.4707	3.4714	3.4682	3.4728	3.4708	-0.41
30	3.4802	3.4791	3.4832	3.4793	3.4804	-0.13
Inside diameters						
1	2.7479	2.7453	2.7479	2.7452	2.7466	-0.20
9	2.7463	2.7468	2.7463	2.7468	2.7465	-0.20
18	2.7396	2.7404	2.7396	2.7404	2.7400	-0.44
24	2.7408	2.7410	2.7408	2.7410	2.7409	-0.40
30	2.7453	2.7449	2.7453	2.7449	2.7451	-0.25

^aZero degrees denotes plane of fuel element loading mark.

^bRelative to nominal preirradiation dimension. Negative value for percent change denotes a decrease.

Table 3.2-3. Postirradiation wall thickness
of F05-05 sleeve (in.)

Compact	Azimuth				Average	Percent change ^b
	0° ^a	90°	180°	270°		
1	0.4044	0.3700	0.3297	0.3677	0.3680	0.40
9	0.4001	0.3760	0.3282	0.3526	0.3642	-0.62
18	0.3959	0.3792	0.3359	0.3523	0.3658	-0.18
24	0.3803	0.3836	0.3499	0.3463	0.3650	-0.40
30	0.3720	0.3701	0.3632	0.3655	0.3677	-0.33

^aZero degrees denotes plane of element loading mark.

^bRelative to nominal preirradiation dimension. Negative value for percent change denotes a decrease in the dimension.

Table 3.2-4. Postirradiation diameter and length of F05-05 spine

	Position	Diameter		Percent change ^a
		Preirradiation (in.)	Postirradiation (in.)	
Bottom spine	Top	1.665	1.6517	-0.80
	Middle		1.6530	-0.72
	Bottom		1.6590	-0.36
Middle spine	Top	1.665	1.6510	-0.84
	Middle		1.6461	-1.14
	Bottom		1.6488	-0.97
Top spine	Top	1.665	1.6592	-0.35
	Middle		1.6526	-0.75
	Bottom		1.6518	-0.79
<hr/>				
		Length		Percent change
		Preirradiation (in.)	Postirradiation (in.)	
Bottom spine		30.00	29.6536	-1.16
Middle spine		30.00	29.3182	-2.27
Top spine		30.00	29.0941	-3.02

^aRelative to nominal preirradiation dimension. Negative value denotes a decrease in dimension.

Table 3.2-5. Postirradiation inside and outside diameters of
F05-05 fuel compacts

Compact		OD (in.)		Percent change ^a	ID (in.)		Percent change ^a
		0°	90°		0°	90°	
1	Top	2.7271	2.7259		1.7452	1.7428	
	Middle	2.7277	2.7271		1.7443	1.7431	
	Bottom	2.7310	2.7316		1.7469	1.7456	
	Mean	2.7284		-0.5	1.7447		-0.3
9	Top	2.6872	2.6979		1.7168	1.7220	
	Middle	2.6784	2.6858		1.7129	1.7158	
	Bottom	2.6881	2.6828		1.7169	1.7163	
	Mean	2.6867		-2.1	1.7168		-1.9
18	Top	2.6598	2.6549		1.6989	1.6960	
	Middle	2.6463	2.6434		1.6886	1.6896	
	Bottom	2.6562	2.6587		1.6972	1.6982	
	Mean	2.6532		-3.3	1.6948		-3.2
24	Top	2.6717	2.6800		1.7020	1.7107	
	Middle	2.6558	2.6665		1.6963	1.7037	
	Bottom	2.6653	2.6754		1.7024	1.7095	
	Mean	2.6691		-2.7	1.7041		-2.6
30	Top	2.7159	2.7197		1.7300	1.7362	
	Middle	2.7046	2.7097		1.7261	1.7301	
	Bottom	2.7068	2.7107		1.7271	1.7299	
	Mean	2.7112		-1.2	1.7299		-1.2

^aRefers to the change from preirradiation nominal values, which were:
OD, 2.743 in.; ID, 1.750 in.

Table 3.2-6. Postirradiation wall thickness of F05-05
fuel compacts (in.)

Compact	Location	Azimuth			
		0° ^a	90°	180°	270°
1	Top	0.4921	0.4927	0.4898	0.4904
	Middle	0.4935	0.4940	0.4899	0.4900
	Bottom	0.4947	0.4944	0.4894	0.4916
9	Top	0.4820	0.4898	0.4884	0.4861
	Middle	0.4785	0.4869	0.4870	0.4831
	Bottom	0.4813	0.4899	0.4899	0.4772
18	Top	0.4798	0.4788	0.4811	0.4801
	Middle	0.4781	0.4766	0.4796	0.4772
	Bottom	0.4807	0.4785	0.4783	0.4820
24	Top	0.4885	0.4814	0.4812	0.4879
	Middle	0.4829	0.4796	0.4766	0.4832
	Bottom	0.4865	0.4790	0.4764	0.4869
30	Top	0.4955	0.4933	0.4904	0.4902
	Middle	0.4898	0.4921	0.4887	0.4875
	Bottom	0.4909	0.4927	0.4888	0.4883

^aZero degrees denotes the plane of the fuel element loading mark.

Table 3.2-7. Postirradiation lengths of F05-05 fuel compacts

Compact	Length (in.)	Compact	Length (in.)
1	2.9708	16	3.0005
2	2.9514	17	2.9396
3	2.9821	18	3.0029
4	2.9377	19	2.8809
5	3.0456	20	2.9684
6	3.0203	21	2.9382
7	3.0610	22	3.0084
8	3.0263	23	2.9992
9	3.0222	24	3.0263
10	3.0297	25	2.9873
11	2.9937	26	2.9967
12	2.9943	27	3.0436
13	3.0300	28	2.9684
14	2.9487	29	2.9825
15	2.9774	30	2.9888

in ref. 3; the measured values and their means are tabulated. It should be noted that the use of the "curvature gauge" for measuring the outer diameter of a cylinder yields a value for the diameter at each orientation measured. It is thus possible to have two estimates of the diameter from the 0° to the 180° azimuths and two estimates across the 90° to 270° azimuths, as shown in the table. The outer diameter is seen to vary with azimuth by only 0 to ~ 0.004 in.; hence, the outside circumference of the element is very nearly circular. Likewise, the thickness of the sleeve adjacent to compact 30 (Table 3.2-3) is rather uniform around its circumference. On the other hand, the sleeve thickness varies significantly with azimuth near compacts 1, 9, 18, and 24.

The diameters of the spine pieces as determined with a curvature gauge (see ref. 3) are presented in Table 3.2-4. As can be seen, the diameter of the spine pieces diminished from 0.4 to 1.1% compared with the nominal preirradiation values. The lengths of the spine pieces, given in the lower portion of the table, indicate that the postirradiation lengths are from 1.2 to 3.0% less than the nominal lengths of unirradiated spines.

Measurements of the inside and outside diameters of fuel compacts 1, 9, 18, 24, and 30 are presented in Table 3.2-5. Diameters were determined at three locations: bottom, middle, and top, each at 0° and 90° azimuths. Mean values, computed for each of the six measurements, are also listed in the table. The difference between the nominal preirradiation and postirradiation dimensions indicates that both the outside and inside diameters decreased from about 0.5 to 1% at the ends of the element to approximately 3.2% in the middle.

The wall thicknesses of compacts 1, 9, 18, 24, and 30 are given in Table 3.2-6; the procedures and apparatus used are described in ref. 3. Twelve measurements were made on each compact — at four azimuthal orientations at each of three axial locations. A comparison of the measured postirradiation wall thicknesses with the nominal value for unirradiated compacts indicates that the wall thicknesses generally decreased during service, with the greatest dimensional changes occurring in the middle of the fuel element.

The lengths of all the compacts were measured, and the results are given in Table 3.2-7.

Figure 3.1-26 illustrates the bowing that was observed in the upper portion of the sleeve and in the central spine piece. Note that the upper sleeve was deflected laterally by about 0.3 in. in the 90° to 270° plane, which is obtained by 90° rotation from the plane containing the element identification number.

4. DISTRIBUTION OF GAMMA-EMITTING RADIONUCLIDES

4.1 Methods and Procedures

The procedures used for obtaining axial and radial distributions of radionuclides in the spine and sleeve and for determining the inventories of radionuclides in the fuel compacts are described in Sect. 4 of ref. 2.

4.2 Axial Distributions

4.2.1 Fuel compacts

Seven gamma-emitting radionuclides, ^{95}Zr , ^{106}Ru , ^{125}Sb , ^{134}Cs , ^{137}Cs , ^{144}Ce , and ^{154}Eu , were detected and measured in the fuel. Niobium-95, the daughter of ^{95}Zr , was also detected, but its inventory was not derived. Table 4.2-1 lists the measured inventories of these seven radionuclides for each fuel compact. These data consist of means and standard deviations based on four gamma spectra observations per compact. Two observations were made at the bottom and in the middle of the compacts in the 0° plane; and two, top and middle, were made in the 90° plane. Values of the standard deviations of individual observations based on counting statistics are not given in Table 4.2-1; however, they are roughly comparable to those indicated in Table 4.2-2 of ref. 4. The inventories of the individual radionuclides in the total fuel are given at the bottom of each column in Table 4.2-1.

Figures 4.2-1 through 4.2-3 illustrate the axial distributions of the gamma-emitter inventories per compact. The error bars shown are the one-sigma errors, expressed as curies per compact, computed from the percent relative standard deviations given in Table 4.2-1. The gamma-emitter

ORNL DWG 78-9731 R

Fig. 3.1-26. Lateral deflection (bowing) of F05-05 sleeve and central spine piece.

Table 4.2-1. Fission product inventories in FO5-05 fuel compacts as of October 30, 1974

(curies per compact at end of life)

Compact	ZR95	% RSD ^a	PU106	% RSD ^a	SB125	% RSD ^a	CS134	% RSD ^a	CS137	% RSD ^a	CE144	% RSD ^a	EU154	% RSD ^a
1	1.45E+02	13.9	6.18E+00	13.0	2.93E-01	1.0	7.15E+00	8.6	9.41E+00	5.3	7.12E+01	3.7	1.66E-01	0.2
2	1.78E+02	21.0	6.47E+00	4.9	2.70E-01	4.8	1.26E+01	21.0	1.23E+01	13.2	7.66E+01	0.8	1.78E-01	1.6
3	1.67E+02	27.2	7.93E+00	5.0	3.39E-01	0.0	1.69E+01	2.5	1.48E+01	1.9	8.35E+01	2.6	2.73E-01	1.3
4	1.69E+02	9.6	8.72E+00	0.3	3.67E-01	6.4	2.32E+01	2.7	1.78E+01	4.0	1.02E+02	9.8	3.14E-01	3.0
5	2.05E+02	2.6	8.34E+00	8.7	5.72E-01	15.7	2.66E+01	15.1	1.90E+01	11.1	1.02E+02	3.4	3.64E-01	8.3
6	2.58E+02	3.5	9.66E+00	6.6	4.59E-01	29.1	2.29E+01	13.7	2.00E+01	10.2	1.05E+02	4.2	3.83E-01	6.1
7	2.21E+02	6.5	1.00E+01	2.7	5.53E-01	17.6	3.41E+01	0.5	2.25E+01	2.0	1.10E+02	3.1	4.21E-01	0.4
8	2.24E+02	0.3	1.03E+01	7.8	5.81E-01	37.4	3.99E+01	9.0	2.54E+01	6.4	1.19E+02	3.4	4.29E-01	3.6
9	3.03E+02	19.7	1.18E+01	6.4	5.46E-01	5.8	3.55E+01	5.0	2.27E+01	3.7	1.20E+02	4.8	4.40E-01	1.3
10	2.90E+02	3.9	1.23E+01	4.2	7.67E-01	3.8	2.25E+01	4.6	1.55E+01	2.0	1.27E+02	7.7	4.32E-01	13.2
11	1.92E+02	15.8	1.15E+01	5.7	9.07E-01	8.7	1.49E+01	6.7	1.13E+01	4.5	1.35E+02	0.8	3.40E-01	10.5
12	1.68E+02	10.1	1.18E+01	1.8	9.20E-01	22.2	8.80E+00	2.7	7.88E+00	1.8	1.35E+02	6.5	1.42E-01	28.8
13	1.94E+02	20.6	1.25E+01	4.5	8.47E-01	6.1	1.16E+01	0.4	9.24E+00	0.9	1.33E+02	1.6	2.07E-01	9.8
14	1.92E+02	0.0	1.17E+01	3.5	8.43E-01	0.6	9.75E+00	15.3	8.41E+00	9.8	1.39E+02	1.5	1.75E-01	51.7
15	1.92E+02	0.9	1.19E+01	5.1	9.60E-01	3.1	8.37E+00	15.7	7.72E+00	7.5	1.43E+02	3.3	1.62E-01	68.0
16	1.77E+02	0.1	1.25E+01	5.4	8.83E-01	10.3	7.52E+00	18.3	7.27E+00	10.7	1.37E+02	0.9	8.40E-02	0.3
17	1.99E+02	11.2	1.29E+01	3.3	9.50E-01	7.1	6.39E+00	0.0	6.82E+00	1.0	1.41E+02	2.4	8.40E-02	0.3
18	1.82E+02	8.0	1.25E+01	6.1	9.31E-01	1.6	5.58E+00	3.2	6.32E+00	0.8	1.37E+02	0.5	8.40E-02	6.3
19	1.87E+02	2.8	1.23E+01	4.9	8.77E-01	4.9	6.29E+00	10.0	6.72E+00	5.4	1.35E+02	0.4	8.40E-02	6.3
20	1.63E+02	6.3	1.20E+01	1.6	7.46E-01	0.5	6.85E+00	16.9	6.82E+00	10.5	1.28E+02	3.4	6.21E-02	50.2
21	1.81E+02	2.8	1.25E+01	4.1	8.83E-01	12.5	7.74E+00	20.3	7.66E+00	11.9	1.38E+02	5.4	4.56E-02	17.1
22	1.82E+02	4.8	1.17E+01	0.6	8.76E-01	2.3	6.60E+00	3.7	6.90E+00	4.9	1.30E+02	4.1	5.22E-02	2.0
23	1.76E+02	6.3	1.15E+01	6.4	8.40E-01	4.2	8.69E+00	13.1	8.16E+00	8.7	1.26E+02	1.1	1.59E-01	41.2
24	1.73E+02	11.6	1.07E+01	6.3	6.89E-01	10.5	9.75E+00	15.9	8.63E+00	11.2	1.23E+02	0.8	2.26E-01	16.3
25	1.57E+02	3.0	9.72E+00	2.2	6.72E-01	11.1	9.23E+00	17.0	8.53E+00	14.1	1.17E+02	2.7	1.78E-01	6.1
26	1.35E+02	2.8	9.62E+00	2.2	6.50E-01	8.7	1.14E+01	5.2	1.02E+01	3.6	1.06E+02	4.8	3.16E-01	2.9
27	1.43E+02	6.1	8.77E+00	4.0	5.80E-01	4.4	9.66E+00	3.4	9.34E+00	3.2	1.02E+02	1.0	2.35E-01	4.2
28	1.52E+02	3.9	8.16E+00	1.1	5.60E-01	6.9	9.59E+00	14.4	9.79E+00	11.8	1.00E+02	3.7	2.44E-01	0.8
29	1.24E+02	0.5	6.99E+00	2.4	3.65E-01	4.5	8.42E+00	0.8	9.61E+00	3.9	8.75E+01	1.0	2.16E-01	7.9
30	9.63E+01	10.6	6.52E+00	1.2	3.78E-01	4.1	6.97E+00	4.0	9.05E+00	2.6	8.03E+01	1.1	1.80E-01	3.2
SUM	5.52E+03		3.10E+02		2.01E+01		4.22E+02		3.46E+02		3.50E+03		6.69E+00	

^a% RSD = percent relative standard deviation.

ORNL DWG 77-955

Fig. 4.2-1. Inventories of ^{95}Zr and ^{144}Ce in F05-05 fuel compacts as of October 30, 1974.

ORNL DWG 77-957

Fig. 4.2-2. Inventories of ^{106}Ru , ^{125}Sb , and ^{154}Eu in F05-05 fuel compacts as of October 30, 1974.

ORNL DWG 77-956

Fig. 4.2-3. Inventories of ^{134}Cs and ^{137}Cs in F05-05 fuel compacts as of October 30, 1974.

inventories normalized to the inventories of ^{95}Zr are plotted in Figs. 4.2-4 through 4.2-6. Since the isotope ^{95}Zr is known to be immobile in Peach Bottom fuel throughout the range of conditions observed thus far, the inventory distribution of other fission products normalized to ^{95}Zr would provide strong evidence as to whether that particular isotope had experienced significant gross movement during irradiation service.

4.2.2 Sleeve, spine, and bottom connector

The sleeve was cut into three pieces, each about 30 in. long (corresponding to the three manufactured sections of the spine) and scanned axially in two planes 90° apart. The spine pieces and bottom connector were similarly measured. Spectra acquired at 0.2459-in. intervals along each plane were analyzed in terms of curies per an equivalent 3 in. of length. Eight nuclides, ^{60}Cs , ^{106}Ru , $^{110\text{m}}\text{Ag}$, ^{125}Sb , ^{134}Cs , ^{137}Cs , ^{144}Ce , and ^{154}Eu , were detected and measured.

These results are listed in Tables A-1 through A-24 in Appendix A. Both the observed inventory per 3 in. of length and the standard deviation based on counting statistics at each location are given. In these tables the designation (****), which appears frequently in the error column, signifies that no direct observation of the isotope was made at the particular location, and that the given inventory value is merely the upper limit which could exist there without detection. If the observed count rates in three channels on either side of a photopeak were less than three standard deviations above the base line, established by the count rate at each end of the six-channel width, then the photopeak was judged to be "not detected." The listed "upper-limit value" was then calculated, assuming a photopeak count rate equal to the maximum, nondetectable value of three standard deviations above the base line. For the sleeve and spine, the values tabulated under the column labeled as "Distance" represent the distance from the bottom of fuel compact 1; in the case of the bottom reflector, distance is measured from the bottom of the fuel element.

Tables 4.2-2 and 4.2-3 list the observed inventories for the sleeve and spine, respectively, expressed as curies per 3-in. segment corresponding to the length of a fuel compact. These data were derived from the

Fig. 4.2-4. Inventory ratios of $^{144}\text{Ce}/^{95}\text{Zr}$ and $^{106}\text{Ru}/^{95}\text{Zr}$ in F05-05 fuel compacts as of October 30, 1974.

Fig. 4.2-5. Inventory ratios of $^{134}\text{Cs}/^{95}\text{Zr}$ and $^{137}\text{Cs}/^{95}\text{Zr}$ in F05-05 fuel compacts as of October 31, 1974.

ORNL DWG 77-951

Fig. 4.2-6. Inventory ratios of $^{125}\text{Sb}/^{95}\text{Zr}$ and $^{154}\text{Eu}/^{95}\text{Zr}$ in F05-05 fuel compacts as of October 31, 1974.

Table 4.2-2. Axial distribution of gamma-emitters in the sleeve of element F05-05
(curies/compact length, October 31, 1974)

Compact	⁶⁰ Co						¹⁰⁶ Ru					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	2.13E-04	34.0	12	1.50E-04	37.5	12	3.48E-03	99.0	0	2.81E-03	99.0	0
2	9.79E-05	25.3	12	7.09E-05	22.1	12	3.31E-03	99.0	0	2.02E-03	99.0	0
3	1.39E-04	36.2	12	1.01E-04	42.1	12	6.28E-03	99.0	0	6.10E-03	99.0	0
4	1.67E-04	27.3	12	1.18E-04	20.3	11	7.40E-03	99.0	0	2.14E-02	99.0	0
5	2.86E-04	32.4	13	3.96E-04	151.1	13	1.21E-02	99.0	0	2.85E-02	99.0	0
6	7.19E-04	18.7	12	5.75E-04	20.7	12	5.04E-02	99.0	0	5.17E-02	99.0	0
7	7.64E-04	19.5	12	8.96E-04	27.4	11	6.83E-02	99.0	0	7.81E-02	99.0	0
8	1.37E-03	28.4	10	1.34E-03	25.2	7	1.29E-01	99.0	0	1.37E-01	99.0	0
9	2.07E-03	19.0	10	1.64E-03	17.3	6	1.78E-01	99.0	0	1.60E-01	99.0	0
10	4.59E-03	61.4	8	3.85E-03	62.9	8	1.94E-01	99.0	0	1.66E-01	99.0	0
11	9.97E-03	116.7	12	1.02E-02	61.2	12	1.95E-01	99.0	0	1.60E-01	99.0	0
12	5.29E-03	29.5	12	5.87E-03	21.1	12	2.55E-01	99.0	0	2.34E-01	99.0	0
13	6.12E-03	28.1	12	5.93E-03	39.0	12	2.48E-01	99.0	0	2.25E-01	99.0	0
14	5.76E-03	25.2	12	5.59E-03	23.6	12	2.38E-01	99.0	0	2.25E-01	99.0	0
15	6.06E-03	32.1	12	5.92E-03	32.1	13	2.65E-01	99.0	0	2.28E-01	99.0	0
16	5.25E-03	29.8	12	5.17E-03	28.3	12	2.74E-01	99.0	0	2.38E-01	99.0	0
17	4.89E-03	24.5	9	5.10E-03	41.5	12	2.75E-01	99.0	0	2.35E-01	99.0	0
18	6.35E-03	27.3	12	8.09E-03	28.9	12	2.47E-01	99.0	0	2.01E-01	99.0	0
19	8.42E-03	48.7	12	8.24E-03	29.2	12	1.95E-01	99.0	0	1.70E-01	99.0	0
20	1.00E-02	34.9	13	8.97E-03	19.3	13	1.89E-01	99.0	0	1.84E-01	99.0	0
21	1.09E-02	20.0	12	8.72E-03	32.4	12	1.86E-01	99.0	0	8.66E-02	37.4	1
22	8.38E-03	22.9	12	7.95E-03	15.4	12	1.41E-01	99.0	0	2.42E-01	37.2	1
23	6.41E-03	10.1	12	8.34E-03	29.7	12	9.02E-02	99.0	0	1.14E-01	99.0	0
24	5.00E-03	14.6	12	6.56E-03	42.6	12	7.87E-02	99.0	0	9.43E-02	99.0	0
25	3.70E-03	49.0	12	5.07E-03	55.4	13	6.25E-02	99.0	0	7.20E-02	99.0	0
26	7.67E-03	25.0	12	8.95E-03	29.6	12	5.23E-02	99.0	0	4.99E-02	99.0	0
27	1.98E-03	20.0	12	2.62E-03	26.0	12	1.49E-02	99.0	0	1.69E-02	38.6	1
28	1.25E-03	26.1	12	1.19E-03	19.6	12	1.14E-02	99.0	0	9.76E-03	99.0	0
29	1.13E-03	10.6	12	1.36E-03	13.4	12	8.97E-03	34.9	1	6.46E-03	99.0	0
30	1.00E-03	41.0	13	8.82E-04	48.2	13	1.98E-03	39.4	1	1.28E-03	35.5	1
SUM ^c	1.26E-01			1.30E-01			3.69E+00			3.45E+00		

Table 1.1-2 (continued)

Compact	110m _{Ag}						1.5 _{Sb}					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	7.22E-04	1.9	2	4.37E-04	99.0	0	5.57E-04	99.0	0	4.51E-04	99.0	0
2	7.41E-04	38.2	1	5.58E-04	19.2	2	4.97E-04	99.0	0	3.42E-04	99.0	0
3	9.71E-03	26.9	2	6.48E-03	66.6	2	1.01E-03	99.0	0	9.71E-04	99.0	0
4	6.27E-03	92.6	2	5.54E-03	13.6	1	1.18E-03	99.0	0	3.30E-03	99.0	0
5	4.10E-03	66.4	2	3.03E-03	23.9	3	1.91E-03	99.0	0	4.51E-03	99.0	0
6	4.53E-02	120.7	4	4.48E-02	148.8	6	9.28E-03	99.0	0	9.35E-03	99.0	0
7	1.58E-02	41.9	3	1.41E-02	23.4	1	1.25E-02	99.0	0	1.41E-02	99.0	0
8	3.76E-02	55.8	9	4.25E-02	56.8	10	2.28E-02	99.0	0	2.40E-02	99.0	0
9	4.91E-02	24.1	4	4.36E-02	20.8	5	3.03E-02	99.0	0	2.79E-02	99.0	0
10	5.04E-02	26.1	8	5.04E-02	33.8	10	3.26E-02	99.0	0	2.88E-02	99.0	0
11	5.42E-02	33.6	8	5.52E-02	25.1	9	3.25E-02	99.0	0	2.72E-02	99.0	0
12	6.23E-02	7.8	2	6.45E-02	15.6	2	4.06E-02	99.0	0	3.76E-02	99.0	0
13	4.54E-02	99.0	0	5.63E-02	30.3	1	3.94E-02	99.0	0	3.61E-02	99.0	0
14	4.19E-02	99.0	0	3.96E-02	99.0	0	3.82E-02	99.0	0	3.62E-02	99.0	0
15	4.72E-02	99.0	0	3.96E-02	99.0	0	4.20E-02	99.0	0	3.67E-02	99.0	0
16	5.02E-02	99.0	0	5.59E-02	33.2	1	4.30E-02	99.0	0	3.78E-02	99.0	0
17	5.04E-02	99.0	0	4.16E-02	99.0	0	4.32E-02	99.0	0	3.75E-02	99.0	0
18	4.48E-02	99.0	0	3.45E-02	99.0	0	3.92E-02	99.0	0	3.27E-02	99.0	0
19	4.33E-02	35.8	1	2.82E-02	99.0	0	3.19E-02	99.0	0	2.82E-02	99.0	0
20	3.20E-02	99.0	0	3.10E-02	99.0	0	3.11E-02	99.0	0	3.03E-02	99.0	0
21	3.10E-02	99.0	0	3.15E-02	99.0	0	2.99E-02	99.0	0	3.04E-02	99.0	0
22	2.31E-02	99.0	0	2.42E-02	99.0	0	2.37E-02	99.0	0	2.50E-02	99.0	0
23	1.39E-02	99.0	0	1.79E-02	99.0	0	1.56E-02	99.0	0	1.95E-02	99.0	0
24	1.18E-02	38.2	1	1.35E-02	99.0	0	1.40E-02	99.0	0	1.65E-02	99.0	0
25	9.35E-03	99.0	0	1.31E-02	2.5	2	1.07E-02	99.0	0	1.30E-02	99.0	0
26	1.23E-02	37.7	1	7.34E-03	99.0	0	9.07E-03	99.0	0	8.95E-03	99.0	0
27	4.80E-03	32.0	12	3.43E-03	14.3	6	2.31E-03	99.0	0	2.29E-03	99.0	0
28	3.48E-03	31.5	12	2.14E-03	28.5	11	1.78E-03	99.0	0	1.58E-03	99.0	0
29	2.68E-03	25.2	12	1.82E-03	24.4	10	1.10E-03	99.0	0	1.08E-03	99.0	0
30	2.84E-03	12.0	13	1.61E-03	30.2	13	3.17E-04	99.0	0	2.61E-04	99.0	0
SUM ^c	8.07E-01			7.75E-01			6.03E-01			5.73E-01		

Table 4.2-2 (continued)

Compact	^{134}Cs						^{137}Cs					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	3.28E-02	124.0	12	3.79E-02	95.5	12	2.39E-02	126.9	12	2.67E-02	94.0	12
2	7.70E-03	89.4	12	1.66E-02	66.2	12	5.52E-03	87.3	12	1.15E-02	63.9	12
3	6.42E-02	119.4	12	7.62E-02	79.3	12	4.25E-02	118.7	12	4.98E-02	80.2	12
4	6.79E-02	84.9	12	1.23E-01	52.2	12	4.21E-02	84.0	12	7.48E-02	51.2	12
5	1.49E-01	57.3	13	4.84E-01	170.9	13	8.93E-02	56.5	13	2.78E-01	165.8	13
6	4.82E-01	36.9	12	5.13E-01	30.7	12	2.80E-01	37.3	12	2.97E-01	31.5	12
7	9.01E-01	59.5	12	1.20E+00	50.5	12	5.03E-01	59.0	12	6.70E-01	49.9	12
8	2.54E+00	20.5	12	2.83E+00	17.2	12	1.41E+00	20.5	12	1.56E+00	17.2	12
9	3.92E+00	15.3	12	3.52E+00	14.5	12	2.15E+00	15.1	12	1.93E+00	14.6	12
10	4.39E+00	3.6	13	3.72E+00	10.7	13	2.40E+00	3.3	13	2.02E+00	10.4	13
11	4.25E+00	18.1	12	3.31E+00	36.1	12	2.31E+00	18.1	12	1.81E+00	36.7	12
12	5.28E+00	7.9	12	4.67E+00	3.5	12	2.84E+00	7.3	12	2.57E+00	3.2	12
13	4.94E+00	8.2	12	4.32E+00	7.5	12	2.67E+00	7.5	12	2.36E+00	8.0	12
14	4.62E+00	7.1	12	4.35E+00	7.4	12	2.49E+00	7.3	12	2.35E+00	7.6	12
15	4.90E+00	9.4	13	4.37E+00	7.4	13	2.62E+00	8.3	13	2.37E+00	8.2	13
16	5.51E+00	5.3	12	4.44E+00	8.4	12	2.89E+00	5.5	12	2.42E+00	8.5	12
17	5.48E+00	9.1	12	4.50E+00	6.6	12	2.91E+00	7.8	12	2.46E+00	7.8	12
18	4.94E+00	11.0	12	3.81E+00	11.3	12	2.67E+00	10.7	12	2.08E+00	11.2	12
19	3.87E+00	11.7	12	3.19E+00	8.0	12	2.10E+00	12.3	12	1.75E+00	7.6	12
20	3.84E+00	9.5	13	3.70E+00	11.3	13	2.08E+00	9.7	13	2.00E+00	10.7	13
21	3.24E+00	31.1	12	3.66E+00	30.2	12	1.77E+00	30.5	12	1.97E+00	29.7	12
22	2.65E+00	32.9	12	2.96E+00	22.2	12	1.46E+00	31.5	12	1.63E+00	21.2	12
23	1.28E+00	22.4	12	1.99E+00	30.6	12	7.30E-01	22.5	12	1.12E+00	29.8	12
24	1.12E+00	23.7	12	1.56E+00	16.8	12	6.54E-01	23.1	12	9.11E-01	14.7	12
25	6.97E-01	38.2	13	1.02E+00	11.8	13	4.29E-01	36.9	13	6.40E-01	10.1	13
26	6.59E-01	54.0	12	5.56E-01	30.8	12	4.26E-01	51.3	12	3.65E-01	28.3	12
27	2.43E-01	27.4	12	2.42E-01	21.3	12	1.74E-01	25.5	12	1.72E-01	18.4	12
28	1.67E-01	39.2	12	1.31E-01	42.1	12	1.30E-01	36.0	12	1.02E-01	39.3	12
29	8.45E-02	44.7	12	7.92E-02	47.1	12	7.21E-02	41.9	12	6.79E-02	44.2	12
30	1.66E-02	112.2	13	9.29E-03	117.4	13	1.56E-02	109.2	13	8.90E-03	112.5	13
SUM ^c	7.04E+01			6.54E+01			3.84E+01			3.61E+01		

Table 4.2-2 (continued)

Compact	^{144}Ce						^{154}Eu					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	3.03E-02	41.5	2	2.32E-02	99.0	0	1.59E-03	34.6	12	1.17E-03	18.0	12
2	3.08E-02	99.0	0	1.67E-02	99.0	0	7.72E-04	16.6	12	5.30E-04	15.2	12
3	5.19E-02	99.0	0	4.86E-02	99.0	0	9.17E-04	17.7	12	5.49E-04	25.5	12
4	6.22E-02	99.0	0	1.61E-01	99.0	0	1.25E-03	28.5	12	7.97E-04	35.7	11
5	1.04E-01	99.0	0	1.31E-01	36.4	1	2.84E-03	37.2	13	3.12E-03	175.3	13
6	3.79E-01	99.0	0	3.85E-01	99.0	0	5.70E-03	15.8	12	4.50E-03	11.6	12
7	5.16E-01	99.0	0	5.86E-01	99.0	0	7.20E-03	23.1	12	4.91E-03	20.4	12
8	1.01E+00	99.0	0	1.08E+00	99.0	0	1.09E-02	22.3	12	8.04E-03	20.8	12
9	1.45E+00	99.0	0	1.28E+00	99.0	0	1.13E-02	23.7	12	7.40E-03	28.7	12
10	1.59E+00	99.0	0	1.33E+00	99.0	0	1.44E-02	45.5	13	9.30E-03	29.4	13
11	1.63E+00	99.0	0	1.32E+00	99.0	0	6.91E-02	221.3	12	5.01E-02	153.5	12
12	2.21E+00	99.0	0	2.03E+00	99.0	0	6.09E-02	54.3	12	7.57E-02	31.2	12
13	2.16E+00	99.0	0	1.96E+00	99.0	0	1.20E-01	20.1	12	1.25E-01	29.8	12
14	2.09E+00	99.0	0	1.97E+00	99.0	0	1.22E-01	24.8	12	1.31E-01	22.1	12
15	2.33E+00	99.0	0	1.99E+00	99.0	0	1.59E-01	34.3	13	1.26E-01	52.4	13
16	2.44E+00	99.0	0	2.11E+00	99.0	0	1.60E-01	21.0	12	2.41E-01	19.0	12
17	2.47E+00	99.0	0	2.08E+00	99.0	0	2.04E-01	26.4	12	2.06E-01	20.6	12
18	2.20E+00	99.0	0	1.76E+00	99.0	0	2.50E-01	24.9	12	2.46E-01	17.9	12
19	1.70E+00	99.0	0	1.45E+00	99.0	0	2.71E-01	18.4	12	2.50E-01	14.7	12
20	1.63E+00	99.0	0	1.57E+00	99.0	0	2.61E-01	10.4	13	2.45E-01	16.7	13
21	1.61E+00	99.0	0	1.01E+00	27.6	1	2.68E-01	30.3	12	2.24E-01	20.2	12
22	1.21E+00	99.0	0	1.27E+00	99.0	0	2.82E-01	15.9	12	2.30E-01	13.5	12
23	7.64E-01	99.0	0	9.64E-01	99.0	0	2.05E-01	26.4	12	2.14E-01	26.4	12
24	6.40E-01	99.0	0	7.60E-01	99.0	0	1.38E-01	14.8	12	1.39E-01	14.2	12
25	5.04E-01	99.0	0	5.47E-01	99.0	0	7.76E-02	37.8	12	8.83E-02	19.7	13
26	4.37E-01	99.0	0	3.94E-01	99.0	0	1.07E-01	15.5	12	6.80E-02	44.5	12
27	1.29E-01	99.0	0	1.23E-01	99.0	0	1.17E-02	27.2	12	9.26E-03	43.2	12
28	9.80E-02	99.0	0	8.02E-02	99.0	0	1.97E-02	49.3	12	1.15E-02	46.3	12
29	5.68E-02	99.0	0	5.12E-02	99.0	0	1.04E-02	35.8	12	5.18E-03	40.1	12
30	1.58E-02	99.0	0	1.28E-02	99.0	0	1.29E-03	93.6	13	9.95E-04	74.0	13
SUM ^c	3.16E+01			2.85E+01			2.86E+00			2.73E+00		

^aDenotes: (1) percent relative standard deviation when NO is greater than 1, (2) counting statistics error when NO is equal to 1, and (3) arbitrary value of 99.0 when NO is equal to zero. When NO is zero, the inventory value tabulated is the mean of all of the upper-limit values (nominally 1E) computed.

^bDenotes the number of real observations (nonupper limit) per 3-in. interval (see text).

^cDenotes the total inventory in the graphite component and includes upper-limit values.

Table 4-2.3. Axial distribution of gamma-emitters in the spine of element F05-05
(curies/compact length, October 31, 1974)

Compact	⁶⁰ Co						¹⁰⁶ Ru					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	3.82E-04	122.1	12	5.58E-04	169.7	12	3.35E-03	99.0	0	4.32E-03	99.0	0
2	2.82E-04	18.3	12	2.78E-04	13.7	12	7.55E-03	99.0	0	9.27E-03	99.0	0
3	3.35E-04	27.5	12	3.90E-04	47.9	12	1.25E-02	99.0	0	2.00E-02	39.6	1
4	7.83E-04	23.4	12	7.13E-04	16.0	12	2.93E-02	99.0	0	3.99E-02	99.0	0
5	9.22E-04	14.7	13	9.29E-04	15.1	13	2.93E-02	99.0	0	4.75E-02	99.0	0
6	1.22E-03	10.5	12	1.07E-03	17.7	12	3.35E-02	99.0	0	4.71E-02	99.0	0
7	1.23E-03	26.2	12	1.35E-03	20.2	12	5.32E-02	99.0	0	8.78E-02	31.6	1
8	6.89E-03	37.4	12	9.03E-03	51.7	12	7.92E-02	99.0	0	7.91E-02	99.0	0
9	2.44E-03	59.7	12	2.09E-03	62.2	12	9.10E-02	99.0	0	8.61E-02	99.0	0
10	7.07E-03	35.0	13	7.76E-03	17.5	12	1.11E-01	34.4	1	7.18E-02	99.0	0
11	1.76E-03	35.6	12	1.56E-03	57.0	12	7.86E-02	99.0	0	8.04E-02	99.0	0
12	7.20E-04	23.9	8	7.46E-04	34.9	8	7.40E-02	99.0	0	7.17E-02	99.0	0
13	1.39E-03	31.0	11	1.04E-03	37.6	12	7.19E-02	99.0	0	7.22E-02	99.0	0
14	1.67E-03	50.0	12	1.46E-03	26.9	12	6.17E-02	99.0	0	6.47E-02	99.0	0
15	7.43E-04	34.4	5	5.79E-04	24.9	13	5.42E-02	99.0	0	5.55E-02	99.0	0
16	4.49E-04	20.9	8	5.12E-04	27.1	5	4.76E-02	99.0	0	5.03E-02	99.0	0
17	3.11E-04	22.9	5	3.27E-04	17.9	7	3.65E-02	99.0	0	3.77E-02	99.0	0
18	2.71E-04	31.5	5	2.73E-04	18.7	5	3.01E-02	99.0	0	3.00E-02	99.0	0
19	2.38E-04	11.3	6	2.41E-04	9.3	5	3.43E-02	38.5	1	2.72E-02	99.0	0
20	3.23E-04	25.9	4	3.01E-04	10.5	6	3.26E-02	99.0	0	2.97E-02	99.0	0
21	1.52E-04	51.7	5	1.34E-04	15.1	4	1.88E-02	99.0	0	1.80E-02	99.0	0
22	1.72E-04	39.9	10	1.53E-04	41.1	10	9.62E-03	99.0	0	1.09E-02	99.0	0
23	3.23E-04	30.0	12	3.59E-04	29.7	12	9.23E-03	99.0	0	9.88E-03	99.0	0
24	8.21E-04	42.3	12	7.71E-04	50.4	12	7.63E-03	99.0	0	7.25E-03	99.0	0
25	1.35E-03	19.9	13	1.39E-03	25.2	13	4.81E-03	99.0	0	4.49E-03	99.0	0
26	1.25E-03	16.2	12	1.30E-03	30.8	12	1.68E-03	99.0	0	1.92E-03	99.0	0
27	5.49E-04	20.6	12	6.44E-04	28.5	12	1.09E-03	99.0	0	1.31E-03	99.0	0
28	6.82E-04	50.1	12	7.79E-04	70.8	12	9.42E-04	99.0	0	2.25E-03	99.0	0
29	3.54E-04	40.5	12	5.11E-04	46.0	12	2.23E-04	99.0	0	3.16E-04	99.0	0
30	1.29E-04	8.3	5	1.66E-04	17.9	5	2.86E-04	23.4	1	5.37E-05	99.0	0
SUM ^c	3.52E-02			3.74E-02			1.02E+00			1.06E+00		

Table 4.2-3 (continued)

Compact	^{110m} Ag						¹²⁵ Sb					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	6.59E-03	60.7	11	5.13E-03	45.6	12	5.80E-04	99.0	0	8.63E-04	37.1	1
2	1.56E-02	11.3	12	9.83E-03	16.3	12	1.34E-03	99.0	0	1.61E-03	99.0	0
3	8.06E-03	35.7	12	6.47E-03	27.0	12	2.13E-03	99.0	0	3.94E-03	99.0	0
4	6.47E-03	24.5	10	6.08E-03	18.5	7	5.45E-03	99.0	0	7.22E-03	99.0	0
5	5.12E-03	21.9	6	8.00E-03	10.6	3	5.48E-03	99.0	0	1.09E-02	36.3	1
6	5.13E-03	4.5	2	5.66E-03	99.0	0	6.22E-03	99.0	0	8.45E-03	99.0	0
7	6.62E-03	36.3	1	7.47E-03	99.0	0	9.63E-03	99.0	0	1.05E-02	99.0	0
8	1.14E-02	99.0	0	1.17E-02	99.0	0	1.38E-02	99.0	0	1.38E-02	99.0	0
9	1.36E-02	99.0	0	1.31E-02	99.0	0	1.57E-02	99.0	0	1.50E-02	99.0	0
10	1.14E-02	99.0	0	1.83E-03	39.8	1	1.37E-02	99.0	0	1.25E-02	99.0	0
11	1.12E-02	99.0	0	1.15E-02	99.0	0	1.36E-02	99.0	0	1.38E-02	99.0	0
12	1.04E-02	99.0	0	1.00E-02	99.0	0	1.30E-02	99.0	0	1.26E-02	99.0	0
13	1.00E-02	99.0	0	1.00E-02	99.0	0	1.26E-02	99.0	0	1.26E-02	99.0	0
14	8.18E-03	99.0	0	8.77E-03	99.0	0	1.09E-02	99.0	0	1.14E-02	99.0	0
15	6.81E-03	99.0	0	7.03E-03	99.0	0	9.72E-03	99.0	0	9.95E-03	99.0	0
16	5.72E-03	99.0	0	8.59E-03	32.3	1	8.58E-03	99.0	0	9.08E-03	99.0	0
17	4.23E-03	99.0	0	4.45E-03	99.0	0	6.69E-03	99.0	0	6.88E-03	99.0	0
18	3.44E-03	99.0	0	3.43E-03	99.0	0	5.58E-03	99.0	0	5.50E-03	99.0	0
19	3.22E-03	99.0	0	3.07E-03	99.0	0	5.18E-03	99.0	0	4.99E-03	99.0	0
20	3.82E-03	99.0	0	3.42E-03	99.0	0	6.04E-03	99.0	0	5.42E-03	99.0	0
21	2.51E-03	99.0	0	2.46E-03	99.0	0	3.36E-03	99.0	0	3.13E-03	99.0	0
22	1.49E-03	99.0	0	1.66E-03	99.0	0	1.64E-03	99.0	0	1.83E-03	99.0	0
23	1.40E-03	99.0	0	1.48E-03	99.0	0	1.57E-03	99.0	0	1.66E-03	99.0	0
24	1.55E-03	32.2	1	1.07E-03	99.0	0	1.31E-03	99.0	0	1.26E-03	99.0	0
25	7.67E-04	99.0	0	7.26E-04	99.0	0	8.12E-04	99.0	0	7.63E-04	99.0	0
26	3.28E-04	99.0	0	3.53E-04	99.0	0	2.71E-04	99.0	0	3.27E-04	99.0	0
27	2.12E-04	99.0	0	2.47E-04	99.0	0	1.74E-04	99.0	0	2.13E-04	99.0	0
28	1.86E-04	99.0	0	3.86E-04	99.0	0	1.44E-04	99.0	0	3.87E-04	99.0	0
29	8.85E-05	35.9	5	7.56E-05	31.9	2	3.28E-05	99.0	0	4.58E-05	99.0	0
30	3.00E-04	31.1	5	5.76E-05	21.9	4	9.11E-06	99.0	0	7.50E-06	99.0	0
SUM ^c	1.66E-01			1.54E-01			1.75E-01			1.87E-01		

Table 4.2-3 (continued)

Compact	^{134}Cs						^{137}Cs					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	4.52E-02	40.1	12	6.23E-02	27.2	12	3.06E-02	39.9	12	4.18E-02	27.6	12
2	1.17E-01	30.2	12	1.45E-01	29.5	12	7.49E-02	27.9	12	9.47E-02	28.0	12
3	2.25E-01	11.0	12	2.86E-01	14.0	12	1.35E-01	9.7	12	1.76E-01	13.8	12
4	2.86E-01	20.3	12	4.54E-01	16.7	12	1.71E-01	20.0	12	2.74E-01	15.5	12
5	2.60E-01	9.3	13	6.08E-01	6.2	13	1.50E-01	10.2	13	3.55E-01	6.7	13
6	3.43E-01	21.8	12	5.93E-01	9.4	12	1.94E-01	21.0	12	3.39E-01	8.5	12
7	8.20E-01	21.6	12	9.24E-01	12.7	12	4.57E-01	21.3	12	5.17E-01	11.7	12
8	1.51E+00	10.8	12	1.50E+00	11.0	12	8.33E-01	10.2	12	8.25E-01	10.7	12
9	1.88E+00	11.4	12	1.78E+00	10.3	12	1.02E+00	11.5	12	9.70E-01	10.4	12
10	1.58E+00	21.3	13	1.45E+00	32.1	13	8.60E-01	21.6	13	7.89E-01	32.1	13
11	1.53E+00	9.8	12	1.56E+00	29.0	12	8.21E-01	9.5	12	8.47E-01	29.2	12
12	1.42E+00	5.2	12	1.36E+00	2.2	12	7.65E-01	5.2	12	7.32E-01	2.5	12
13	1.36E+00	2.9	12	1.37E+00	1.4	12	7.32E-01	2.7	12	7.37E-01	1.5	12
14	1.06E+00	14.1	12	1.17E+00	13.2	12	5.68E-01	13.9	12	6.28E-01	13.0	12
15	8.86E-01	2.7	13	9.47E-01	2.0	13	4.74E-01	2.7	13	5.06E-01	2.4	13
16	7.21E-01	17.1	12	8.15E-01	15.6	12	3.87E-01	16.7	12	4.39E-01	15.2	12
17	4.61E-01	5.5	12	4.90E-01	8.8	12	2.52E-01	4.6	12	2.69E-01	8.6	12
18	3.41E-01	8.8	12	3.22E-01	10.7	12	1.87E-01	8.9	12	1.77E-01	10.1	12
19	3.08E-01	1.0	12	2.65E-01	1.5	12	1.66E-01	1.2	12	1.45E-01	1.5	12
20	4.09E-01	33.3	13	3.11E-01	44.7	13	2.21E-01	34.1	13	1.72E-01	44.9	13
21	2.57E-01	34.7	12	2.29E-01	16.4	12	1.43E-01	32.2	12	1.27E-01	15.5	12
22	1.52E-01	3.8	12	1.72E-01	5.8	12	8.89E-02	4.4	12	9.83E-02	6.0	12
23	1.39E-01	6.5	12	1.46E-01	14.7	12	8.23E-02	6.1	12	8.41E-02	13.1	12
24	1.01E-01	7.1	12	9.34E-02	12.8	12	6.27E-02	5.7	12	5.72E-02	11.0	12
25	5.67E-02	37.9	13	5.45E-02	21.1	13	3.73E-02	36.1	13	3.55E-02	19.0	13
26	1.31E-02	17.5	12	2.55E-02	14.0	12	9.47E-03	15.2	12	1.82E-02	11.4	12
27	1.04E-02	23.2	12	1.92E-02	37.8	12	8.29E-03	24.8	12	1.51E-02	37.8	12
28	1.17E-02	31.8	12	3.56E-02	28.3	12	1.03E-02	30.9	12	2.97E-02	25.9	12
29	8.75E-04	132.2	12	2.20E-03	147.2	12	8.18E-04	129.1	12	2.00E-03	145.4	12
30	4.02E-04	13.0	5	1.94E-04	17.5	5	4.35E-04	16.7	5	1.93E-04	25.9	5
SUM ^c	1.63E+01			1.72E+01			8.95E+00			9.51E+00		

Table 1. -2 (continued)

Compact	^{144}Ce						^{154}Eu					
	Plane 1			Plane 2			Plane 1			Plane 2		
	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b	Inventory (Ci/3 in.)	Error ^a (%)	NO ^b
1	2.75E-02	99.0	0	3.52E-02	99.0	0	3.05E-03	181.2	12	4.45E-03	225.6	12
2	5.83E-02	99.0	0	7.26E-02	99.0	0	6.18E-04	23.1	12	5.23E-04	19.2	12
3	1.03E-01	99.0	0	1.45E-01	39.5	1	5.83E-04	31.0	12	1.19E-03	53.5	7
4	2.09E-01	99.0	0	2.85E-01	99.0	0	1.65E-03	32.4	12	1.23E-03	23.1	12
5	2.68E-01	38.1	1	3.43E-01	99.0	0	1.87E-03	26.9	13	2.04E-03	28.4	13
6	2.40E-01	99.0	0	3.44E-01	99.0	0	3.14E-03	36.1	12	2.65E-03	36.9	12
7	3.93E-01	99.0	0	4.42E-01	99.0	0	2.41E-03	24.1	12	2.92E-03	29.9	12
8	7.53E-01	31.5	1	6.16E-01	99.0	0	2.47E-03	15.9	9	2.96E-03	19.8	6
9	8.33E-01	35.2	1	6.75E-01	99.0	0	2.62E-03	22.5	8	3.12E-03	24.9	10
10	6.11E-01	99.0	0	8.02E-01	38.4	1	6.19E-03	46.1	13	7.30E-03	24.4	12
11	6.07E-01	99.0	0	6.24E-01	99.0	0	1.02E-02	43.0	12	1.01E-02	39.4	12
12	5.73E-01	99.0	0	5.53E-01	99.0	0	1.89E-02	16.5	12	1.70E-02	14.5	12
13	5.53E-01	99.0	0	5.49E-01	99.0	0	1.43E-02	20.5	12	1.38E-02	27.2	12
14	4.64E-01	99.0	0	4.89E-01	99.0	0	1.79E-02	14.8	12	1.82E-02	31.5	12
15	5.64E-01	33.3	1	4.13E-01	99.0	0	1.33E-02	17.5	13	1.36E-02	9.8	13
16	3.46E-01	99.0	0	3.70E-01	99.0	0	1.23E-02	7.1	12	1.28E-02	7.9	12
17	2.61E-01	99.0	0	2.61E-01	99.0	0	1.19E-02	9.5	12	1.21E-02	6.1	12
18	2.15E-01	99.0	0	2.17E-01	99.0	0	1.26E-02	9.4	12	1.25E-02	6.5	12
19	1.99E-01	99.0	0	1.96E-01	99.0	0	1.24E-02	6.7	12	1.22E-02	6.0	12
20	2.32E-01	99.0	0	2.12E-01	99.0	0	1.30E-02	23.4	13	1.22E-02	25.3	13
21	1.43E-01	99.0	0	1.42E-01	99.0	0	1.42E-02	10.5	12	1.40E-02	7.3	12
22	7.86E-02	99.0	0	9.25E-02	99.0	0	1.21E-02	7.0	12	1.28E-02	5.2	12
23	7.47E-02	99.0	0	8.33E-02	99.0	0	1.27E-02	9.5	12	1.36E-02	9.8	12
24	6.27E-02	99.0	0	5.89E-02	99.0	0	1.09E-02	6.4	12	9.61E-03	6.3	12
25	4.09E-02	99.0	0	3.86E-02	99.0	0	9.55E-03	25.4	13	8.51E-03	20.8	13
26	1.59E-02	99.0	0	1.68E-02	99.0	0	5.32E-03	14.8	12	3.60E-03	23.7	12
27	1.03E-02	99.0	0	1.21E-02	99.0	0	3.84E-03	25.0	12	3.70E-03	14.5	12
28	8.89E-03	99.0	0	1.95E-02	99.0	0	3.32E-03	49.0	12	5.23E-03	34.4	12
29	2.31E-03	99.0	0	3.23E-03	99.0	0	4.45E-04	79.9	12	9.59E-04	86.2	12
30	1.64E-03	33.9	1	5.72E-04	99.0	0	1.88E-04	31.9	5	1.80E-04	42.4	5
SUM ^c	7.95E+00			8.11E+00			2.34E-01			2.35E-01		

^aDenotes: (1) percent relative standard deviation when NO is greater than 1, (2) counting statistics error when NO is equal to 1, and (3) arbitrary value of 99.0 when NO is equal to zero. When NO is zero, the inventory value tabulated is the mean of all of the upper-limit values (nominally 12) computed.

^bDenotes the number of real observations (nonupper limit) per 3-in. interval (see text).

^cDenotes the total inventory in the graphite component and includes upper-limit values.

gamma scan data given in Appendix A. Inventory values per 3-in. segment were obtained for each plane that was measured by apportioning the total number of scan points, normally about 264 along a plane, into 30 groups. Each group corresponded nominally to 12 scan points, although a few corresponded to 13 points. Because some of the data in Appendix A represented upper limits (as described above) rather than real measured values, the data were classified according to three categories. Category 1 consists of data for which two or more of the scan points per 3-in. interval were actual measured quantities. In this case, mean values of the observed activities were tabulated as the inventory per 3-in. interval. The errors listed in Tables 4.2-2 and 4.2-3 for category 1 data are conventional standard deviations expressed as percentages of the mean inventories. The number of observations (NO) within each 3-in. segment (statistically, one plus the number of degrees of freedom) is listed after each error value. Category 2 consisted of data for which only one scan point within a 3-in. segment was an actual measured quantity. In this case, the observed quantity was tabulated as the inventory per 3 in. of section and the counting statistics error for that scan point in Appendix A was tabulated as the error in Tables 4.2-2 and 4.2-3. Category 3 represented those data in which all of the scan points per 3 in. of section consisted of upper-limit values designated in Appendix A. The mean of each of the upper-limit values per 3-in. interval was computed and tabulated for category 3 data, and is signified in Tables 4.2-2 and 4.2-3 with an arbitrarily assigned error of 99.0%. For such data, the number of observed real values was zero and is tabulated accordingly.

Because the counting time interval used to acquire gamma spectra in the automated scanning of spine and sleeve (as described in Sect. 4 of ref. 2) was only about 5 min, it was thought that some improvement in the axial distributions of gamma-emitters might be realized if a limited sampling were made with longer counting times. Longer times would reduce counting statistics errors and perhaps result in the replacement of some upper-limit estimates by real-value estimates, as well as possibly allow detection of additional radionuclides if they were present at low levels. Consequently, gamma spectra of both sleeve and spine were acquired, for

200 sec, in both planes at nine selected locations along the element adjacent to the locations of fuel compacts 2, 5, 9, 12, 15, 19, 22, 25, and 29.

Tables 4.2-4 and 4.2-5 present the inventories, per 3-in. segment of sleeve and spine, of the nuclides detected and measured by these so-called "long counts." Generally, these data were in good agreement with the results found by the automated scanning procedure; they are tabulated in Appendix A. In a few instances, small amounts of ^{106}Ru and ^{144}Ce that were not found by the scanning procedure were detected by the long counts.

Small amounts of the gamma-emitting nuclides observed in the sleeve and spine were also found in the bottom connector. Table 4.2-6 summarizes the nuclide inventories derived from the axial distributions in Appendix A.

The observed distributions of gamma-emitting nuclides in the sleeve and spine are plotted in Figs. 4.2-7 through 4.2-22, corresponding to the tabular data given in Appendix A. The vertical bands signify the values of the standard deviations based on counting statistics. Distributions in each of the two planes in which observations were made are shown. Frequently, the upward-facing arrow appears as a plotting point, especially in spine distributions. This denotes an upper-limit value calculated by the method discussed earlier in this section.

4.3 Radial Distributions

The sleeve and spine were radially dissected at locations adjacent to fuel compacts 5, 12, 18, and 28 by methods described in Sect. 4 of ref. 2. Tables 4.3-1 through 4.3-8 summarize the radial distributions observed for the gamma-emitting nuclides; the distributions are plotted in Figs. 4.3-1 through 4.3-4.

Many of the tabulated activity values are upper-limit values denoted by the "<" symbol. Although the upper-limit values are plotted, the significance of such plots is simply that the true distributions should lie somewhere below the upper-limit values; the actual profiles are unknown. Generally, the nuclides ^{106}Ru , $^{110\text{m}}\text{Ag}$, and ^{144}Ce are the only ones represented as upper limits. Since the upper-limit values derived for these

Table 4.2-4. Concentrations of gamma-emitting radionuclides in the sleeve of element F05-05
(corrected to October 31, 1974)^a

Location of compact	Distance ^b (in.)	Plane	⁶⁰ Co		¹⁰⁶ Ru		^{110m} Ag		¹³⁴ Cs		¹³⁷ Cs		¹⁴⁴ Ce		¹⁵⁴ Eu	
			Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)
2	4.5	1	1.13E-4	3	1.14E-3	15	1.41E-4	25	4.85E-3	0.5	3.56E-3	0.4			9.03E-4	1
		2	7.59E-5	5	5.75E-4	99	1.74E-4	38	2.95E-2	0.2	1.97E-2				5.30E-4	2
		Mean	9.44E-5		8.57E-4		1.44E-4		1.72E-2		1.16E-2				7.16E-4	
5	13.5	1	7.61E-4	8	1.44E-2	99	0.13	1	0.773	0.2	0.457	0.2	0.17	99	6.65E-3	4
		2	5.93E-4	9	1.42E-2	99	0.17	1	0.778	0.2	0.466	0.2	0.17	99	5.46E-3	4
		Mean	6.77E-4		1.43E-2		0.15		0.775		0.461		0.17		6.06E-3	
9	25.5	1	8.05E-4	20	3.68E-2	99	2.83E-2	14	4.83	0.1	2.63	0.1	0.51	99	1.14E-2	5
		2			3.11E-2	99	3.62E-2	9	3.67	0.1	2.00	0.1	0.42	99	8.97E-3	5
		Mean			3.39E-2		3.22E-2		4.25		2.31		0.46		1.02E-2	
12	34.5	1	5.08E-3	5	3.98E-2	99	1.24E-2	99	4.87	0.1	2.60	0.1	0.62	99	0.14	0.9
		2	8.52E-3	3	3.73E-3	99	1.16E-2	99	4.09	0.1	2.28	0.1	0.57	99	0.14	0.8
		Mean	6.80E-3		2.18E-2		1.20E-2		4.48		2.44		0.59		0.14	
15	43.5	1	5.06E-3	6	4.24E-2	99	2.28E-2	28	5.43	0.1	2.83	0.1	0.67	99	0.20	0.7
		2	8.71E-3	3	3.69E-2	99	1.12E-2	99	3.95	0.1	2.10	0.1	0.57	99	0.31	0.5
		Mean	6.88E-3		3.96E-2		1.70E-2		4.69		2.46		0.62		0.25	
19	55.5	1	1.28E-2	2	3.67E-2	99	1.08E-2	99	4.07	0.1	2.17	0.1	0.55	99	0.27	0.5
		2	1.01E-2	2	3.30E-2	99	9.46E-3	99	3.74	0.1	2.00	0.1	0.49	99	0.25	0.5
		Mean	1.14E-2		3.48E-2		1.01E-2		3.90		2.08		0.52		0.26	
22	64.5	1	9.64E-3	2	2.50E-2	99	6.56E-3	99	2.18	0.1	1.23	0.1	0.35	99	0.24	0.5
		2	9.76E-3	2	2.98E-2	99	8.13E-3	99	3.23	0.1	1.76	0.1	0.42	99	0.22	0.5
		Mean	9.69E-3		2.74E-2		7.34E-3		2.70		1.49		0.38		0.23	
25	73.5	1	7.32E-3	0.8	3.69E-3	99	2.45E-3	29	0.286	0.1	0.189	0.1	6.67E-2	99	0.11	0.3
		2	1.11E-2	0.7	4.07E-3	99	1.58E-3	99	0.386	0.1	0.260	0.1	7.44E-2	99	7.55E-2	0.4
		Mean	9.21E-3		3.88E-3		2.01E-3		0.336		0.224		7.05E-2		9.27E-2	
29	85.5	1	1.07E-3	0.8	7.13E-4	19	2.92E-3	2	4.77E-3	0.4	4.72E-3	0.3			1.33E-3	1
		2	8.24E-4	0.9	5.56E-4	21	1.36E-3	3	3.94E-3	0.5	3.81E-3	0.3			1.25E-3	1
		Mean	9.47E-4		6.34E-4		2.14E-3		4.35E-3		4.26E-3				1.30E-3	

^aMeasurements made by acquiring gamma spectra for 2000 seconds in the middle of that sleeve section adjacent to the designated compact.

^bDistance from bottom of fuel.

^cDenotes one-sigma counting statistic error.

Table 4.2-5. Concentrations of gamma-emitting radionuclides in the spine of element F05-05
(corrected to October 31, 1974)^a

Location of compact	Distance ^b (in.)	Plane	⁶⁰ Co		¹⁰⁶ Ru		^{110m} Ag		¹³⁴ Cs		¹³⁷ Cs		¹⁴⁴ Ce		¹⁵⁴ Eu	
			Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)	Inventory (Ci/3 in.)	Error ^c (%)
2	4.5	1	3.82E-4	3	3.40E-3	99	2.22E-2	1	0.186	0.1	0.120	0.1	2.73E-2	99	8.39E-4	4
		2	3.11E-4	3	2.84E-3	99	1.07E-2	2	0.114	0.1	7.55E-2	0.1	2.20E-2	99	5.62E-4	4
		Mean	3.46E-4		3.12E-3		1.14E-2		0.150		9.77E-2		2.46E-2		7.0E-4	
5	13.5	1	1.18E-3	4	1.35E-2	99	1.65E-3	99	0.424	0.2	0.243	0.2	0.32	6	1.51E-3	7
		2	9.63E-4	5	1.66E-2	99	1.96E-3	99	0.573	0.2	0.330	0.2	0.30	7	1.75E-3	7
		Mean	1.07E-3		1.50E-2		1.80E-3		0.498		0.286		0.31		1.63E-3	
9	25.5	1	1.78E-3	7	3.16E-2	99	4.86E-3	99	2.09	0.1	1.14	0.1	0.25	99	2.64E-3	10
		2	1.42E-3	6	3.10E-2	99	4.71E-3	99	2.06	0.1	1.12	0.1	0.25	99	2.43E-3	10
		Mean	1.60E-3		3.13E-2		4.78E-3		2.07		1.13		0.25		2.53E-3	
12	34.5	1	4.02E-4	15	2.54E-2	99	3.57E-3	99	1.46	0.1	0.789	0.1	0.32	7	1.86E-2	2
		2			2.41E-2	99	3.34E-3	99	1.34	0.1	0.720	0.1	0.29	8	1.72E-2	2
		Mean			2.47E-2		3.45E-3		1.40		0.754		0.30		1.79E-2	
15	43.5	1	3.59E-4	5	1.97E-2	99	2.47E-3	99	0.937	0.1	0.500	0.1	0.15	99	1.27E-2	2
		2	4.32E-4	11	2.01E-2	99	2.56E-3	99	0.995	0.1	0.534	0.1	0.31	7	1.41E-2	2
		Mean	3.95E-4		1.99E-2		2.51E-3		0.966		0.517		0.23		1.34E-2	
19	55.5	1			1.05E-2	99	1.21E-3	99	0.310	0.2	0.168	0.2	7.56E-2	99	1.24E-2	2
		2	9.09E-5	26	1.01E-2	99	1.13E-3	99	0.257	0.2	0.141	0.2	7.27E-2	99	1.15E-2	2
		Mean			1.03E-2		1.17E-3		0.283		0.154		7.41E-2		1.19E-2	
22	64.5	1	2.37E-5	30	3.19E-3	99	4.78E-4	99	0.157	0.1	9.17E-2	0.1	2.67E-2	99	1.14E-2	0.6
		2			3.76E-3	99	5.72E-4	99	0.188	0.1	0.107	0.1	3.17E-2	99	1.34E-2	
		Mean			3.47E-3		5.25E-4		0.172		9.93E-2		2.92E-2		1.24E-2	
25	73.5	1	1.46E-3	1	2.08E-3	99	3.15E-4	99	6.05E-2	0.2	3.99E-2	0.2	1.52E-2	16	1.11E-2	0.6
		2	1.51E-3	1	1.71E-3	99	2.75E-4	99	4.41E-2	0.2	2.90E-2	0.2	2.03E-2	12	8.56E-3	0.7
		Mean	1.48E-3		1.89E-3		2.95E-4		5.23E-2		3.44E-2		1.77E-2		9.83E-3	
29	85.5	1	4.37E-4	0.5	1.03E-4	99	3.96E-5	32	9.96E-4	0.4	9.21E-4	0.3			7.30E-4	0.6
		2	5.09E-4	0.5	1.0E-4	25	3.03E-4	99	1.69E-3	0.3	1.56E-3	0.2			1.39E-3	0.5
		Mean	4.73E-4		1.10E-4		1.71E-4		1.34E-3		1.24E-3				1.06E-3	

^aMeasurements made by acquiring gamma spectra for 2000 seconds in the middle of that spine adjacent to the designated compact.

^bDistance from bottom of fuel.

^cDenotes one-sigma counting statistic error.

Table 4.2-6. Inventories of gamma-emitting radionuclides
in the bottom connector of element F05-05
(as of October 31, 1974)

Radionuclide	Inventory (Ci)
^{60}Co	0.234
^{106}Ru	0.067
$^{110\text{m}}\text{Ag}$	0.011
^{125}Sb	0.013
^{134}Cs	0.138
^{137}Cs	0.098
^{144}Ce	0.693
^{154}Eu	0.0043

Fig. 4.2-7. Axial distribution of ^{60}Co in the sleeve of element F05-05 as of October 31, 1974.

Fig. 4.2-8. Axial distribution of ^{60}Co in the spine of element F05-05 as of October 31, 1974.

ORNL DWG 77-1817

Fig. 4.2-9. Axial distribution of ^{106}Ru in the sleeve of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

Fig. 4.2-10. Axial distribution of ^{106}Ru in the spine of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

Fig. 4.2-11. Axial distribution of ^{110m}Ag in the sleeve of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

Fig. 4.2-12. Axial distribution of ^{110m}Ag in the spine of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

ORNL DWG 77-1823

Fig. 4.2-13. Upper-limit axial profile of ^{125}Sb in the sleeve of element F05-05.

Fig. 4.2-14. Axial distribution of ^{125}Sb in the spine of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

ORNL DWG 77-1821

Fig. 4.2-15. Axial distribution of ^{134}Cs in the sleeve of element F05-05 as of October 31, 1974.

Fig. 4.2-16. Axial distribution of ^{134}Cs in the spine of element F05-05 as of October 31, 1974.

Fig. 4.2-17. Axial distribution of ^{137}Cs in the sleeve of element F05-05 as of October 31, 1974.

Fig. 4.2-18. Axial distribution of ^{137}Cs in the spine of element F05-05 as of October 31, 1974.

ORNL DWG 77-1815

Fig. 4.2-19. Axial distribution of ^{144}Ce in the sleeve of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

Fig. 4.2-20. Axial distribution of ^{144}Ce in the spine of element F05-05 as of October 31, 1974. (Data shown as upward arrows are upper-limit values.)

Fig. 4.2-21. Axial distribution of ^{154}Eu in the sleeve of element F05-05 as of October 31, 1974.

Fig. 4.2-22. Axial distribution of ^{154}Eu in the spine of element F05-05 as of October 31, 1974.

Table 4.3-1. Radial distribution of gamma-emitting radionuclides found in F05-05 sleeve at compact 5
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)								¹³⁷ Cs/ ¹³⁴ Cs ratio	
		⁵⁴ Mn	⁶⁰ Co ^b	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu ^b		
25	0.064	0.032	-	6.99	<335	<39.3	6.21E3	3.59E3	<2.4E3	111.1	0.58
10	0.025	0.076	-	37.31	<260	<28.5	3.72E3	2.17E3	<1.9E3	37.8	0.58
10	0.025	0.10	-	14.92	<340	<37.7	4.69E3	2.71E3	<2.3E3	37.72	0.58
30	0.076	0.15	-	2.88	<167	<17.6	2.94E3	1.69E3	<1.17E3	3.85	0.57
30	0.076	0.23	-	<0.34	<88	<9.9	1.83E3	1.07E3	<622.8	<1.0	0.58
30	0.076	0.38	-	0.19	<25.4	<3.5	750.9	431.0	<193.2	<0.36	0.57
30	0.076	0.53	-	<0.036	<8.5	<1.0	186.5	107.0	<60.3	<0.10	0.58
30	0.076	0.61	-	<0.012	<2.8	<0.3	64.43	36.69	<20.0	0.053	0.57
30	0.076	0.68	-	5.46E-3	<0.5	<0.07	13.63	7.71	<3.7	0.042	0.57
30	0.076	0.76	-	4.29E-3	<0.09	<0.01	1.66	0.95	<0.66	0.025	0.57
30	0.076	0.84	-	6.0E-3	<0.06	<8.2E-3	0.79	0.49	<0.44	0.015	0.62
15	0.038	0.89	-	0.032	<0.3	<0.03	5.17	3.32	<1.8	0.016	0.64
7	0.018	0.92	1.84	3.77	3.4	2.0	66.18	44.49	<26.5	0.93	0.67

^a Thickness of sample milled from sleeve.
^b Numbers preceded by < are upper-limit values.

Table 4.3-2. Radial distribution of gamma-emitting radionuclides found in F05-05 sleeve at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)								¹³⁷ Cs/ ¹³⁴ Cs ratio	
		⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru	^{110m} Ag	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce	¹⁵⁴ Eu		
15	0.038	0.019	-	168.8	-	-	8.26E4	4.56E4	-	6.83E3	0.55
15	0.038	0.057	-	90.2	-	-	7.51E4	4.12E4	-	4.00E3	0.55
10	0.025	0.089	-	72.2	-	-	7.53E4	4.08E4	-	3.78E3	0.54
30	0.076	0.139	-	-	-	-	5.73E4	3.10E4	-	584.1	0.54
30	0.076	0.215	-	-	-	-	4.08E4	2.19E4	-	88.8	0.54
30	0.076	0.367	-	-	-	-	2.26E4	1.19E4	-	-	0.53
30	0.076	0.519	-	-	-	-	1.09E4	5.70E3	-	-	0.52
30	0.076	0.595	-	-	-	-	7.13E3	3.68E3	-	-	0.52
30	0.076	0.671	-	-	-	-	4.32E3	2.20E3	-	-	0.51
30	0.076	0.747	-	-	-	-	2.66E3	1.35E3	-	-	0.51
30	0.076	0.823	-	-	-	-	1.08E3	540.3	-	0.9	0.50
15	0.038	0.88	-	1.07	-	-	542.4	272.4	-	17.9	0.50
10	0.025	0.92	-	13.5	-	-	812.7	436.1	-	1.1E3	0.54

^aThickness of sample milled from sleeve.

Table 4.3-3. Radial distribution of gamma-emitting radionuclides found in F05-05 sleeve at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)							¹³⁷ Cs/ ¹³⁴ Cs ratio	
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b		¹⁵⁴ Eu ^b
20	0.051	0.026	-	273.6	<3.26E3	<459.6	5.0E4	2.73E4	<2.65E4	4.95E3	0.55
20	0.051	0.077	-	148.2	<3.52E3	<552.5	4.72E4	2.58E4	<2.93E4	8.22E3	0.55
10	0.025	0.115	-	60.6	<3.12E3	<466.1	4.68E4	2.56E4	<2.59E4	8.23E3	0.55
30	0.076	0.165	-	-	<2.25E3	<354.5	3.76E4	2.06E4	<1.87E4	5.79E3	0.55
30	0.076	0.24	-	-	<1.63E3	<216.6	3.14E4	1.71E4	<1.3E4	958.0	0.54
30	0.076	0.393	-	-	<814.6	<107.5	2.03E4	1.07E4	<6.08E3	<8.6	0.53
30	0.076	0.545	-	-	<310.5	<43.0	8.27E3	4.29E3	<2.37E3	<3.6	0.52
30	0.076	0.62	-	-	<217.0	<25.6	4.61E3	2.36E3	<1.58E3	<2.0	0.51
30	0.076	0.697	-	-	<92.7	<12.3	2.19E3	1.12E3	<730.0	<1.0	0.51
30	0.076	0.773	-	-	<42.4	<5.8	1.03E3	524.4	<311.9	<0.5	0.51
30	0.076	0.849	-	-	<17.4	<2.3	385.0	196.6	<128.0	0.3	0.51
15	0.038	0.91	-	0.18	<6.61	<0.9	114.5	58.0	<54.1	7.0	0.51
5	0.013	0.93	3.39	12.84	<24.2	<6.52	214.4	115.2	-	242.0	0.54

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-4. Radial distribution of gamma-emitting radionuclides found in F05-05 sleeve at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from ID (cm)	Radionuclide concentration (μCi/g)								¹³⁷ Cs/ ¹³⁴ Cs ratio	
		⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu ^b		
20	0.051	0.026	-	77.9	<315.7	<59.7	4.56E3	3.77E3	<2.75E3	788.3	0.83
30	0.076	0.064	-	35.7	<99.8	134.2	1.87E3	1.55E3	<826.0	54.7	0.83
30	0.076	0.140	-	-	<44.6	<5.71	864.0	715.4	<313.5	<0.5	0.83
30	0.076	0.216	-	-	<15.4	<2.22	363.1	299.8	<114.7	<0.2	0.83
30	0.076	0.368	-	-	<4.44	<0.53	84.8	69.7	<32.2	<0.05	0.82
30	0.076	0.52	-	-	<0.85	<0.12	18.9	15.1	<6.4	0.03	0.80
30	0.076	0.60	-	-	<0.37	<0.05	7.9	6.2	<3.0	0.02	0.79
30	0.076	0.672	-	1.92E-3	<0.25	<0.02	3.9	2.9	<1.4	0.03	0.75
30	0.076	0.748	-	1.12E-3	<0.14	<0.02	2.5	1.7	<1.0	0.04	0.68
30	0.076	0.824	-	2.78E-3	<0.14	<0.02	2.7	1.6	<1.0	0.03	0.59
15	0.038	0.881	0.06	0.29	<0.4	<0.08	7.0	3.8	<3.4	0.2	0.55
5	0.013	0.91	2.8	4.8	<2.7	<0.7	37.4	20.8	-	11.7	0.56

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-5. Radial distribution of gamma-emitting radionuclides found in F05-05 spine at compact 5
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)							¹³⁷ Cs/ ¹³⁴ Cs ratio	
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b		¹⁵⁴ Eu ^b
5	0.013	0.007	-	74.95	<2.27E3	365.6	4.86E4	2.77E4	<1.65E4	395.8	0.57
15	0.038	0.032	-	14.19	<1.0E3	262.6	2.81E4	1.60E4	<7.53E3	<14.0	0.57
30	0.076	0.09	-	8.68	<9.0E2	104.0	1.74E4	9.97E3	<6.29E3	<9.0	0.57
30	0.076	0.17	-	8.0	<465	<54.8	1.09E4	6.24E3	<3.26E3	<5.0	0.57
30	0.076	0.24	-	1.7	<270	<34.3	6.43E3	3.67E3	<1.97E3	<3.0	0.57
30	0.076	0.32	-	3.5	<140	<19.4	3.94E3	2.25E3	<1.08E3	<2.0	0.57
30	0.076	0.39	-	3.35	<90	<11.9	2.40E3	1.37E3	<6.86E2	<1.0	0.57
30	0.076	0.47	-	3.14	<60	<7.4	1.41E3	8.09E2	<4.32E2	<0.8	0.57
30	0.076	0.55	-	3.39	<40	<4.7	828.9	472.9	<280	<1.0	0.57
30	0.076	0.62	-	3.55	<20	<2.6	474.1	271.8	<150	0.53	0.57
30	0.076	0.7	-	3.26	<16	<2.0	286.0	164.5	<110	0.43	0.58
30	0.076	0.77	-	3.41	<9.0	<1.2	168.0	95.89	<60	0.57	0.57
60	0.152	0.89	-	3.22	<4.6	<0.8	81.28	46.3	<34	0.53	0.57
40	0.102	1.014	0.41	3.4	<1.7	<0.4	33.77	18.91	<13	0.64	0.56
62.5	0.159	1.72	0.39	3.2	<0.4	<0.1	3.47	1.57	-	1.58	0.45
125	0.318	1.96	0.36	2.9	-	<0.1	3.26	1.44	-	0.79	0.44

^aThickness of sample milled from sleeve.

^bNumbers preceded by < are upper-limit values.

Table 4.3-6. Radial distribution of gamma-emitting radionuclides found in F05-05 spine at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)							¹³⁷ Cs/ ¹³⁴ Cs ratio	
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b		¹⁵⁴ Eu
5	0.013	0.007	-	48.4	<800	<95.7	1.08E4	6.15E3	-	506.9	0.57
15	0.038	0.032	-	7.06	<500	<60.6	1.10E4	6.21E3	<3.65E3	156.2	0.56
30	0.076	0.089	-	4.62	<370	<51.0	1.06E4	5.88E3	<2.91E3	135.6	0.55
30	0.076	0.165	-	3.74	<376	<49.6	1.03E4	5.67E3	<2.87E3	126.4	0.55
30	0.076	0.24	-	5.55	<380	<49.3	1.00E4	5.48E3	<2.9E3	130.4	0.55
30	0.076	0.32	-	4.64	<370	<47.8	9.49E3	5.12E3	<2.82E3	114.8	0.54
30	0.076	0.39	-	4.42	<370	<45.9	8.96E3	4.74E3	<2.77E3	109.2	0.53
30	0.076	0.47	-	5.16	<370	<44.6	8.34E3	4.43E3	<2.74E3	88.1	0.53
30	0.076	0.545	-	6.65	<300	<37.3	8.58E3	4.52E3	<2.18E3	95.5	0.53
30	0.076	0.62	-	2.09	<170	<25.8	6.77E3	3.90E3	<1.33E3	9.75	0.58
30	0.076	0.7	-	1.46	<190	<27.7	6.11E3	3.19E3	<1.47E3	72.3	0.52
30	0.076	0.77	-	1.65	<190	<27.8	6.42E3	3.35E3	<1.47E3	76.1	0.52
60	0.152	0.89	-	1.40	<140	<20.6	4.77E3	2.46E3	<1.07E3	53.1	0.52
40	0.102	1.014	-	1.88	<113	<17.4	4.05E3	2.08E3	<880	45.2	0.51
62.5	0.159	1.72	-	1.46	<48	<7.5	1.77E3	895.7	<380	18.7	0.51
125	0.318	1.96	-	1.29	<42	<6.6	1.53E3	772.9	<330	16.5	0.51

^aThickness of sample milled from spine.

^bNumbers preceded by < are upper-limit values.

Table 4.3-7. Radial distribution of gamma-emitting radionuclides found in F05-05 spine at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)								¹³⁷ Cs/ ¹³⁴ Cs ratio	
		⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru ^b	^{110m} Ag ^b	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce ^b	¹⁵⁴ Eu		
7	0.018	0.009	-	34.7	195.1	-	2.63E3	1.65E3	-	294.6	0.63
15	0.038	0.037	-	4.9	-	-	2.59E3	1.58E3	-	82.0	0.61
30	0.076	0.094	-	-	-	-	2.46E3	1.47E3	-	58.0	0.60
30	0.076	0.17	-	2.34	-	-	2.39E3	1.40E3	-	64.2	0.59
30	0.076	0.25	-	2.4	-	-	2.30E3	1.31E3	-	64.7	0.57
30	0.076	0.32	-	3.33	-	-	2.25E3	1.27E3	-	64.3	0.56
30	0.076	0.4	-	3.4	-	-	2.19E3	1.21E3	-	64.2	0.55
30	0.076	0.47	-	3.1	-	-	2.11E3	1.17E3	-	63.1	0.55
30	0.076	0.55	-	3.37	-	-	2.03E3	1.11E3	-	62.7	0.55
30	0.076	0.63	-	-	-	-	1.97E3	1.07E3	-	57.9	0.54
30	0.076	0.70	-	-	<120	<15	1.91E3	1.02E3	<900	58.4	0.53
30	0.076	0.78	-	3.37	<70	<12	2.37E3	1.27E3	<600	71.3	0.54
60	0.152	0.89	-	2.99	<90	<11	1.69E3	887.5	<700	51.7	0.53
55	0.14	1.04	-	-	<100	<12	1.58E3	815.5	<720	44.9	0.52
62.5	0.159	1.72	-	-	<70	<8	1.04E3	520.1	<500	35.1	0.50
125	0.318	1.96	-	2.32	<70	<8	991.8	497.7	<500	35.4	0.50

^aThickness of sample milled from spine.

^bNumbers preceded by < are upper-limit values.

Table 4.3-8. Radial distribution of gamma-emitting radionuclides found in F05-05 spine at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration (μCi/g)							¹³⁷ Cs/ ¹³⁴ Cs ratio	
			⁵⁴ Mn	⁶⁰ Co	¹⁰⁶ Ru	^{110m} Ag	¹³⁴ Cs	¹³⁷ Cs	¹⁴⁴ Ce		¹⁵⁴ Eu
5	0.013	0.007	-	75.5	-	-	970	833	-	308	0.86
15	0.038	0.032	-	7.6	-	-	643	540	-	133	0.84
30	0.076	0.089	-	5.3	-	-	488	415	-	101	0.85
30	0.076	0.17	-	5.1	-	-	320	273	-	79	0.85
30	0.076	0.24	-	5.2	-	-	220	186	-	61	0.85
30	0.076	0.32	-	5.2	-	-	157	133	-	46	0.85
30	0.076	0.39	-	5.4	-	-	110	94	-	35.4	0.85
30	0.076	0.47	-	2.1	-	-	50	42	-	18.1	0.85
30	0.076	0.55	-	2.0	-	-	36	30.3	-	13.9	0.84
30	0.076	0.62	-	2.0	-	-	27.2	22.7	-	11.2	0.83
30	0.076	0.7	-	1.7	-	-	19.2	16.1	-	8.4	0.84
30	0.076	0.77	-	1.4	-	-	13.2	11.1	-	6.3	0.84
60	0.152	0.89	-	0.74	-	-	7.1	6.0	-	3.6	0.85
60	0.152	1.04	-	0.33	-	0.17	3.9	3.3	-	2.2	0.85
62.5	0.159	1.72	-	0.12	-	0.26	0.65	0.45	-	0.09	0.69
125	0.318	1.96	-	0.10	-	0.36	0.28	0.22	-	0.08	0.79

^aThickness of sample milled from spine.

Fig. 4.3-1. Radial distribution of gamma-emitting radionuclides in element F05-05 at compact 5 (corrected to October 31, 1974).

Fig. 4.3-2. Radial distribution of gamma-emitting radionuclides in element F05-05 at compact 12 (corrected to October 31, 1974).

Fig. 4.3-3. Radial distribution of gamma-emitting radionuclides in element F05-05 at compact 18 (corrected to October 31, 1974).

Fig. 4.3-4. Radial distribution of gamma-emitting radionuclides in element F05-05 at compact 28 (corrected to October 31, 1974).

nuclides are governed by the nuclides present in larger concentrations, principally ^{134}Cs and ^{137}Cs , the upper-limit profiles usually follow the profiles of the cesium isotopes.

The $^{137}\text{Cs}/^{134}\text{Cs}$ ratios given in the radial distribution tables are plotted in Fig. 4.3-5. Some of the factors which influence this ratio are discussed in the report describing the examination of fuel element E11-07 (ref. 2). The relatively level value for the ratio in the higher-temperature regions of the sleeve (compacts 12 and 18) may be due to the more radially uniform temperature at these locations. In the spine at compact location 28, the rapid decrease of the ratio indicates that the migration of ^{133}Xe is relatively more important in regulating the levels of ^{134}Cs .

5. DISTRIBUTIONS OF ^3H , ^{14}C , AND ^{90}Sr

Radial distributions of ^3H , ^{14}C , and ^{90}Sr were obtained in the sleeve and spine opposite compact locations 5, 12, 18, and 28. The radiochemical methods used to effect these analyses are outlined in Sect. 5 of ref. 2. The results of these measurements are listed in Tables 5.1-1 through 5.1-8 and are plotted in Figs. 5.1-1 through 5.1-4.

6. FUEL PARTICLE EXAMINATION

Examination of F05-05 was limited to the metallographic recordings of the appearance of the fuel in compacts 2 and 22. The reader is directed to Sect. 6 of refs. 4 and 11 for a summary of observations regarding (1) fuel particle failure fractions in elements E11-07 and F03-01; (2) fission product inventories in individual fuel particles taken from compacts 2, 13, 19, and 28 of element F03-01, and compacts 2, 9, 13, and 16 of element E11-07; and (3) heavy-metal inventories (^{232}Th , uranium isotopes, ^{238}Pu , ^{241}Am , and ^{244}Cm) in selected particles from these samples.

Fig. 4.3-5. Radial distribution ratio of $^{137}\text{Cs}/^{134}\text{Cs}$ in the spine and sleeve of element F05-05 (corrected to October 31, 1974).

Table 5.1-1. Radial distribution of beta-emitting radionuclides
found in F05-05 sleeve at compact 5
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentrations ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
25	0.064	0.032	6.8	0.31	827
10	0.025	0.077	37.1	0.31	288
10	0.025	0.102	21.9	0.33	290
30	0.076	0.228	8.2	0.03	7.5
30	0.076	0.38	1.3	0.21	3.6
30	0.076	0.53	1.0	0.21	0.02
30	0.076	0.68	1.1	0.23	0.08
30	0.076	0.84	1.5	0.22	0.16
7	0.018	0.92	19.0	0.73	16.3

^aThickness of sample milled from sleeve.

Table 5.1-2. Radial distribution of beta-emitting radionuclides
found in FO5-05 sleeve at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
15	0.038	0.019	59.7	0.8	1.77E5
10	0.025	0.089	77.2	0.6	7.55E3
30	0.076	0.22	88.7	0.37	623.0
30	0.076	0.37	83.5	0.36	44.2
30	0.076	0.52	70.5	0.26	15.9
30	0.076	0.67	52.8	0.33	21.6
30	0.076	0.82	41.2	0.34	11.5
10	0.025	0.92	27.8	1.12	256.0

^aThickness of sample milled from sleeve.

Table 5.1-3. Radial distribution of beta-emitting radionuclides
found in F05-05 sleeve at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
20	0.051	0.026	13.4	0.49	4.3E4
10	0.025	0.12	17.2	0.48	1.07E5
30	0.076	0.24	18.7	0.35	1.32E5
30	0.076	0.39	23.3	0.33	1.7E3
30	0.076	0.55	29.2	0.34	51.8
30	0.076	0.70	45.5	0.33	1.2
30	0.076	0.85	64.8	0.34	4.2
5	0.013	0.93	66.1	0.18	11.2

^aThickness of sample milled from sleeve.

Table 5.1-4. Radial distribution of beta-emitting radionuclides
found in F05-05 sleeve at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
20	0.051	0.026	23.9	0.43	2.9E4
30	0.076	0.064	17.6	0.25	5.5E3
30	0.076	0.21	14.8	0.21	0.15
30	0.076	0.37	10.5	0.15	0.11
30	0.076	0.52	15.1	0.20	0.26
30	0.076	0.67	17.6	0.21	0.64
30	0.076	0.82	21.9	0.21	0.55
5	0.013	0.92	29.0	0.72	171.0

^aThickness of sample milled from sleeve.

Table 5.1-5. Radial distribution of beta-emitting radionuclides
found in FO5-05 spine at compact 5
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
5	0.013	0.007	43.2	1.58	6.1E3
15	0.038	0.032	9.5	0.56	30.6
30	0.076	0.089	8.1	0.64	8.1
30	0.076	0.165	6.9	0.54	5.0
30	0.076	0.24	5.8	0.5	5.1
30	0.076	0.39	7.9	0.65	7.9
30	0.076	0.55	7.5	0.69	0.2
30	0.076	0.7	6.6	0.68	0.5
60	0.152	0.89	6.4	0.67	0.1
62.5	0.159	1.72	4.0	0.67	11.4
125	0.318	1.96	3.9	0.71	1.7

^aThickness of sample milled from spine.

Table 5.1-6. Radial distribution of beta-emitting radionuclides
found in F05-05 spine at compact 12
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from OD (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
5	0.013	0.007	9.5	2.3	1.36E4
15	0.038	0.032	9.9	1.1	5.74E3
30	0.076	0.089	10.1	1.2	4.16E3
30	0.076	0.24	7.7	1.1	4.18E3
30	0.076	0.39	6.8	1.1	4.04E3
30	0.076	0.55	6.4	0.9	3.59E3
30	0.076	0.7	4.6	0.8	2.79E3
60	0.152	0.89	0.6	0.02	2.53E3
62.5	0.159	1.72	0.8	0.4	1.44E3
125	0.318	1.96	2.9	1.0	1.48E3

^aThickness of sample milled from spine.

Table 5.1-7. Radial distribution of beta-emitting radionuclides
found in F05-05 spine at compact 18
(corrected to October 31, 1974)

Thickness ^a (mils) (cm)		Distance to center of cut from OD (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			³ H	¹⁴ C	⁹⁰ Sr
7	0.018	0.009	7.7	2.46	1.09E4
15	0.038	0.037	5.2	0.67	3.45E3
30	0.076	0.094	4.3	0.7	2.58E3
30	0.076	0.17	3.9	0.57	2.55E3
30	0.076	0.25	3.8	0.69	2.61E3
30	0.076	0.4	3.6	0.63	2.45E3
30	0.076	0.55	3.3	0.69	2.41E3
30	0.076	0.70	3.0	0.73	2.73E3
60	0.152	0.89	2.3	0.67	2.89E3
62.5	0.159	1.72	1.9	0.60	2.02E3
125	0.318	1.96	0.8	0.37	2.02E3

^aThickness of sample milled from spine.

Table 5.1-8. Radial distribution of beta-emitting radionuclides
found in F05-05 spine at compact 28
(corrected to October 31, 1974)

Thickness ^a (mils)	(cm)	Distance to center of cut from ID (cm)	Radionuclide concentration ($\mu\text{Ci/g}$)		
			^3H	^{14}C	^{90}Sr
5	0.013	0.007	22.6	2.52	7.72E3
15	0.038	0.032	6.3	0.22	2.74E3
30	0.076	0.089	5.0	0.21	2.35E3
30	0.076	0.17	4.1	0.17	2.30E3
30	0.076	0.24	4.5	0.20	1.73E3
30	0.076	0.39	3.7	0.20	1.11E3
30	0.076	0.55	3.1	0.20	738
30	0.076	0.7	2.5	0.18	390
60	0.152	0.89	2.4	0.19	212
62.5	0.159	1.72	1.8	0.18	2.3
125	0.318	1.96	1.7	0.20	1.2

^aThickness of sample milled from spine.

Fig. 5.1-1. Radial distribution of beta-emitting radionuclides in element F05-05 at compact 5 (corrected to October 31, 1974).

Fig. 5.1-2. Radial distribution of beta-emitting radionuclides in element F05-05 at compact 12 (corrected to October 31, 1974).

Fig. 5.1-3. Radial distribution of beta-emitting radionuclides in element F05-05 at compact 18 (corrected to October 31, 1974).

Fig. 5.1-4. Radial distribution of beta-emitting radionuclides in element F05-05 at compact 28 (corrected to October 31, 1974).

6.1 Metallographic Examination of Fuel Compacts^{*}

The fuel particles in all Peach Bottom HTGR fuel elements were composed of mixed (Th,U)C₂ kernels with BISO coatings. Compacts 1 through 9 (numbered from the bottom of the core) and 28 through 30 were the so-called "standard compacts" with an initial Th/U ratio of 5.5 and no burnable poison. The central compacts, numbered 10 through 27, had the same amounts of thorium and uranium as did the standard compacts and, additionally, 0.342 g of rhodium per compact. More complete specifications of the fuel compacts are given in ref. 1 as well as in the summary presented in Sect. 2.2 of ref. 8. No kernel migration rate studies were made on F05-05 particles.

Figures 6.1-1 through 6.1-5 illustrate some selected features observed in fuel compacts 2 and 22. Figure 6.1-1 shows two typical fuel particles from compact 2. In both cases, the pyrocarbon coating appears to have separated from the matrix material. The left portion of Fig. 6.1-2 illustrates a commonly observed manufacturing defect; however, the particle remained with an intact outer coating. Figure 6.1-3 illustrates what is evidently an irregular manufactured kernel. The irregularity does not seem to be the result of kernel-buffer interaction in view of the continuous recoil zone seen as the white border around the kernel. Figure 6.1-4 illustrates a particle with a partial internal crack in the pyrocarbon layer.

Some typical fuel particles from compact 22 are shown in Fig. 6.1-5. Figure 6.1-6 illustrates a kernel manufacturing fault and a region of almost complete buffer penetration by the kernel.

^{*} Performed by the Remote Metallography Group of the Metals and Ceramics Division.

Fig. 6.1-1. Typical fuel particles from the central part of compact 2 (left) and near the outside diameter of the compact (right). Magnification 150X.

Fig. 6.1-2. Fuel particles from compact 2. Left, a commonly observed manufacturing fault; right, typical particles near inside diameter. Magnification 150X.

Fig. 6.1-3. Fuel particle from compact 2, showing irregular kernel.
Magnification: 500X (left); 150X (right).

Fig. 6.1-4. Fuel particle from compact 2, showing a crack partially through the pyrocarbon coating. Magnification 500X.

Fig. 6.1-5. Typical fuel particles from the outside (left) and inside (right) diameter zones of compact 22. Magnification 200X.

Fig. 6.1-6. Fuel particles from compact 22. Left, illustration of maximum observed buffer penetration; magnification 500X. Right, intact manufacturing fault; magnification 200X.

7. REFERENCES

1. F. F. Dyer, R. P. Wichner, W. J. Martin, L. L. Fairchild, R. J. Kedl, and H. J. de Nordwall, Postirradiation Examination of Peach Bottom HTGR Driver Fuel Element E06-01, ORNL-5126 (March 1976).
2. R. P. Wichner, F. F. Dyer, W. J. Martin, and L. C. Bate, Distribution of Fission Products in Peach Bottom HTGR Fuel Element E11-07, ORNL-5214 (April 1977).
3. R. P. Wichner, F. F. Dyer, and W. J. Martin, Distribution of Fission Products in Peach Bottom HTGR Fuel Element E14-01, ORNL/TM-5730 (August 1977).
4. F. F. Dyer, R. P. Wichner, W. J. Martin, and L. L. Fairchild, Distribution of Fission Products in Peach Bottom HTGR Fuel Element F03-01, ORNL/TM-5996 (June 1978).
5. R. P. Wichner, F. F. Dyer, W. J. Martin, and L. L. Fairchild, Distribution of Fission Products in Peach Bottom HTGR Fuel Element E01-01, ORNL/TM-6353 (August 1978).
6. F. F. Dyer, R. P. Wichner, W. J. Martin, and H. J. de Nordwall, Distribution of Radionuclides in the Peach Bottom HTGR Primary Circuit During Core 2 Operation, ORNL-5188 (April 1977).
7. Peach Bottom Atomic Power Station, Final Hazards Summary Report, Part C, vol. 2, NP-9115 (March 1964).
8. Proposed Facility Change and Technical Specifications Change No. 13 to the Final Hazards Summary Report (January 1970).
9. R. F. Turner, R. D. Burnette, and W. J. Scheffel, HTGR Fuel Performance in the Peach Bottom Reactor, GA-A12675 (July 9, 1973).
10. Internal correspondence, GAC, Frances McCord to C. F. Wallroth, "Peach Bottom Core 2 Driver Element E01-01 Irradiation Summary," Aug. 8, 1975.
11. R. P. Wichner and J. L. Botts, "Fuel Particle Failure Fractions in Peach Bottom HTGR Fuel Elements," Trans. Am. Nucl. Soc. 28, 689-91 (1978).

1

2

3

4

5

6

8. APPENDIX A: MEASURED AXIAL DISTRIBUTION OF
GAMMA-EMITTERS IN THE SLEEVE, SPINE, AND
BOTTOM CONNECTOR IN PLANES 1 AND 2

Appendix A contains the following axial distribution data corrected to October 31, 1974:

<u>Table</u>	<u>Nuclide and component</u>	
A-1	^{60}Co	Sleeve
A-2	^{60}Co	Spine
A-3	^{106}Ru	Sleeve
A-4	^{106}Ru	Spine
A-5	$^{110\text{m}}\text{Ag}$	Sleeve
A-6	$^{110\text{m}}\text{Ag}$	Spine
A-7	^{125}Sb	Sleeve
A-8	^{125}Sb	Spine
A-9	^{134}Cs	Sleeve
A-10	^{134}Cs	Spine
A-11	^{137}Cs	Sleeve
A-12	^{137}Cs	Spine
A-13	^{144}Ce	Sleeve
A-14	^{144}Ce	Spine
A-15	^{154}Eu	Sleeve
A-16	^{154}Eu	Spine
A-17	^{60}Co	Bottom connector
A-18	^{106}Ru	Bottom connector
A-19	$^{110\text{m}}\text{Ag}$	Bottom connector
A-20	^{125}Sb	Bottom connector
A-21	^{134}Cs	Bottom connector
A-22	^{137}Cs	Bottom connector
A-23	^{144}Ce	Bottom connector
A-24	^{154}Eu	Bottom connector

A discussion of the significance of the table entries is given in Sect. 4.2-2.

Table A-1. Axial distribution of ^{60}Co in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	4.01E-04	4.2	1.45E-04	8.9
2	1.63	2.40E-04	5.3	1.27E-04	9.3
3	1.39	2.08E-04	5.7	1.13E-04	10.9
4	1.14	1.94E-04	5.8	1.53E-04	8.7
5	0.89	1.95E-04	6.0	2.96E-04	5.4
6	0.65	2.05E-04	6.4	2.24E-04	8.3
7	0.40	1.16E-04	15.7	1.09E-04	20.1
8	0.16	2.81E-04	11.6	1.09E-04	9.7
9	0.09	2.03E-04	11.9	1.18E-04	10.8
10	0.34	2.07E-04	10.6	1.21E-04	7.5
11	0.58	1.57E-04	13.5	1.63E-04	6.3
12	0.83	1.50E-04	14.0	1.20E-04	8.1
13	1.07	1.18E-04	16.3	9.11E-05	8.4
14	1.32	1.34E-04	13.3	8.31E-05	10.3
15	1.57	1.18E-04	15.9	7.41E-05	10.8
16	1.81	1.03E-04	17.9	7.76E-05	10.5
17	2.06	6.14E-05	31.0	5.52E-05	14.8
18	2.30	9.32E-05	16.5	7.99E-05	11.0
19	2.55	1.11E-04	19.1	5.46E-05	19.0
20	2.80	9.40E-05	19.1	5.87E-05	17.5
21	3.04	8.92E-05	22.8	7.22E-05	12.2
22	3.29	5.95E-05	29.6	4.03E-05	20.7
23	3.53	6.87E-05	26.2	9.10E-05	9.7
24	3.78	1.22E-04	16.5	7.26E-05	12.6
25	4.02	6.50E-05	30.9	5.93E-05	16.7
26	4.27	1.20E-04	15.0	6.72E-05	15.8
27	4.52	1.15E-04	17.0	5.59E-05	18.8
28	4.76	1.67E-04	13.0	4.66E-05	25.1
29	5.01	1.64E-04	13.7	8.29E-05	21.8
30	5.25	1.39E-04	16.7	1.08E-04	24.8
31	5.50	1.09E-04	21.8	1.67E-04	20.8
32	5.75	2.15E-04	19.6	1.82E-04	19.2
33	5.99	2.36E-04	17.4	9.91E-05	26.1
34	6.24	1.04E-04	26.5	1.20E-04	18.4
35	6.48	1.53E-04	14.7	1.12E-04	20.0
36	6.73	8.60E-05	25.7	1.11E-04	22.2
37	6.98	1.15E-04	18.8	9.16E-05	25.1
38	7.22	1.17E-04	19.5	1.15E-04	18.9
39	7.47	1.49E-04	13.9	1.25E-04	18.6
40	7.71	1.74E-04	12.4	1.07E-04	22.9
41	7.96	1.35E-04	17.2	1.41E-04	16.7
42	8.20	1.86E-04	13.5	9.23E-05	33.1
43	8.45	1.29E-04	20.6	8.46E-05	33.3
44	8.70	2.36E-04	14.1	1.46E-04	26.2
45	8.94	2.32E-04	16.7	7.88E-04	****
46	9.19	1.20E-04	22.6	1.44E-04	26.9
47	9.43	1.91E-04	14.2	1.47E-04	25.0

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	2.20E-04	13.3	1.04E-04	37.2
49	9.93	1.38E-04	19.9	1.87E-04	21.7
50	10.17	1.94E-04	14.5	1.87E-04	20.9
51	10.42	2.82E-04	11.3	2.11E-04	20.4
52	10.66	2.88E-04	10.9	1.88E-04	21.1
53	10.91	2.87E-04	10.7	1.67E-04	25.6
54	11.16	2.68E-04	13.3	2.35E-04	21.2
55	11.40	2.65E-04	13.2	2.03E-04	27.7
56	11.65	3.08E-04	13.2	2.05E-04	33.8
57	11.89	2.00E-04	27.4	1.96E-04	33.6
58	12.14	3.28E-04	16.3	1.92E-04	34.4
59	12.39	4.60E-04	12.7	3.77E-04	16.9
60	12.63	2.40E-04	23.2	4.28E-04	16.2
61	12.88	4.58E-04	16.6	2.37E-03	23.1
62	13.12	7.18E-04	17.3	6.50E-04	18.1
63	13.37	9.85E-04	13.5	4.40E-04	27.7
64	13.61	7.26E-04	16.4	4.06E-04	32.2
65	13.86	5.83E-04	24.8	5.98E-04	18.4
66	14.11	5.47E-04	21.1	5.12E-04	29.1
67	14.35	6.48E-04	21.2	4.78E-04	28.0
68	14.60	6.36E-04	21.2	7.69E-04	18.2
69	14.84	9.03E-04	19.3	7.02E-04	26.7
70	15.09	8.20E-04	18.9	6.16E-04	22.2
71	15.34	6.22E-04	20.9	6.59E-04	17.1
72	15.58	8.10E-04	15.7	4.23E-04	24.5
73	15.83	6.35E-04	19.4	6.49E-04	18.8
74	16.07	7.75E-04	15.1	6.02E-04	18.9
75	16.32	5.76E-04	22.8	3.17E-04	****
76	16.57	6.82E-04	20.1	5.86E-04	23.5
77	16.81	6.63E-04	20.0	9.89E-04	14.5
78	17.06	7.85E-04	18.3	1.24E-03	12.5
79	17.30	6.50E-04	22.7	7.88E-04	23.6
80	17.55	6.90E-04	22.5	1.22E-03	16.5
81	17.79	9.25E-04	21.6	6.28E-04	34.8
82	18.04	6.43E-04	35.0	1.17E-03	22.5
83	18.29	7.52E-04	32.5	7.53E-04	31.8
84	18.53	1.07E-03	22.0	8.99E-04	30.2
85	18.78	9.46E-04	22.7	9.71E-04	28.2
86	19.02	1.67E-03	15.0	6.62E-04	****
87	19.27	6.77E-04	38.8	1.30E-03	25.2
88	19.52	1.42E-03	20.6	1.16E-03	28.5
89	19.76	2.03E-03	15.6	1.05E-03	35.2
90	20.01	9.09E-04	37.6	8.26E-04	****
91	20.25	1.16E-03	31.2	1.08E-03	37.9
92	20.50	8.28E-04	****	9.11E-04	****
93	20.75	1.45E-03	29.1	1.87E-03	23.5
94	20.99	1.63E-03	30.3	1.18E-03	****

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	1.04E-03	****	1.04E-03	****
96	21.48	1.45E-03	29.4	1.76E-03	21.2
97	21.73	1.27E-03	33.0	1.14E-03	33.1
98	21.98	1.34E-03	33.1	9.01E-04	****
99	22.22	2.26E-03	19.4	1.51E-03	27.3
100	22.47	2.59E-03	18.3	9.52E-04	****
101	22.71	1.70E-03	29.7	1.05E-03	****
102	22.96	2.03E-03	24.5	1.61E-03	28.2
103	23.20	1.91E-03	26.6	1.30E-03	33.6
104	23.45	2.03E-03	27.8	1.03E-03	****
105	23.70	1.37E-03	****	1.07E-03	****
106	23.94	2.46E-03	27.7	2.03E-03	28.6
107	24.19	1.85E-03	38.7	1.94E-03	32.3
108	24.43	1.36E-03	****	1.21E-03	****
109	24.68	2.50E-03	23.8	1.47E-03	33.2
110	24.93	1.28E-03	****	1.90E-03	24.9
111	25.17	1.82E-03	32.5	1.12E-03	****
112	25.42	1.37E-03	****	1.17E-03	****
113	25.66	1.41E-03	****	1.14E-03	****
114	25.91	1.43E-03	****	1.15E-03	****
115	26.16	2.28E-03	28.1	1.03E-03	****
116	26.40	2.40E-03	26.9	1.66E-03	30.4
117	26.65	1.47E-03	****	2.02E-03	25.5
118	26.89	2.07E-03	29.8	3.65E-03	13.8
119	27.14	4.88E-03	14.3	2.49E-03	23.1
120	27.39	6.84E-03	10.6	4.42E-03	14.7
121	27.63	8.29E-03	8.8	6.12E-03	8.7
122	27.88	8.15E-03	9.3	8.51E-03	6.9
123	28.12	9.73E-03	8.2	7.71E-03	6.6
124	28.37	7.64E-03	9.3	6.53E-03	8.1
125	28.61	7.84E-03	9.6	7.80E-03	7.1
126	28.86	9.42E-03	7.9	7.85E-03	7.0
127	29.11	4.99E-03	14.4	1.07E-02	5.9
128	29.35	5.86E-03	11.2	1.19E-02	5.2
129	29.60	7.49E-03	9.9	1.69E-02	4.1
130	29.84	3.98E-03	16.7	1.37E-02	5.1
131	30.09	4.64E-02	2.3	2.57E-02	2.4
132	30.34	5.35E-03	17.2	3.95E-03	17.7
133	30.58	5.40E-03	12.3	4.07E-03	20.4
134	30.83	5.47E-03	14.0	5.77E-03	15.3
135	31.07	6.73E-03	12.3	5.17E-03	17.9
136	31.32	5.84E-03	13.2	5.98E-03	14.9
137	31.57	3.35E-03	21.8	6.65E-03	13.3
138	31.81	5.89E-03	16.5	4.23E-03	20.6
139	32.06	4.07E-03	23.7	7.13E-03	12.6
140	32.30	2.80E-03	36.2	5.65E-03	14.8
141	32.55	7.40E-03	13.1	6.61E-03	12.2

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	6.98E-03	14.4	4.99E-03	17.5
143	33.04	5.21E-03	19.0	8.13E-03	10.3
144	33.29	4.20E-03	28.0	6.94E-03	13.6
145	33.53	6.96E-03	16.8	4.51E-03	17.5
146	33.78	4.08E-03	22.9	4.42E-03	18.8
147	34.02	7.84E-03	14.0	6.82E-03	13.2
148	34.27	6.46E-03	16.8	7.26E-03	12.3
149	34.52	8.09E-03	12.5	8.79E-03	10.1
150	34.76	5.33E-03	14.9	6.22E-03	12.1
151	35.01	4.64E-03	17.7	8.58E-03	9.3
152	35.25	6.44E-03	15.0	6.79E-03	11.4
153	35.50	3.61E-03	20.4	4.43E-03	15.9
154	35.75	6.60E-03	14.0	8.73E-03	8.9
155	35.99	5.98E-03	14.8	2.16E-03	32.1
156	36.24	7.77E-03	12.4	4.73E-03	18.2
157	36.48	2.89E-03	37.4	2.64E-03	37.3
158	36.73	7.84E-03	12.2	4.00E-03	23.0
159	36.98	4.48E-03	23.0	5.80E-03	16.0
160	37.22	5.24E-03	17.4	4.84E-03	18.9
161	37.47	7.82E-03	11.8	4.18E-03	21.3
162	37.71	6.78E-03	13.5	5.42E-03	15.9
163	37.96	4.83E-03	16.1	6.98E-03	12.3
164	38.20	6.78E-03	13.9	4.33E-03	15.9
165	38.45	6.17E-03	12.7	6.73E-03	12.4
166	38.70	5.80E-03	13.9	6.05E-03	13.9
167	38.94	8.29E-03	10.0	4.79E-03	14.3
168	39.19	4.69E-03	16.2	7.66E-03	10.8
169	39.43	4.70E-03	21.0	3.39E-03	22.6
170	39.68	3.48E-03	32.1	6.95E-03	12.9
171	39.93	3.75E-03	****	6.27E-03	14.0
172	40.17	3.87E-03	25.2	7.82E-03	11.4
173	40.42	5.13E-03	19.7	5.08E-03	15.2
174	40.66	5.10E-03	19.2	5.36E-03	13.4
175	40.91	6.88E-03	14.4	6.43E-03	12.8
176	41.16	4.48E-03	18.8	4.09E-03	18.1
177	41.40	4.67E-03	19.7	3.38E-03	20.0
178	41.65	8.39E-03	10.6	3.58E-03	19.3
179	41.89	7.42E-03	12.2	8.71E-03	9.1
180	42.14	4.65E-03	17.4	7.82E-03	10.7
181	42.39	1.02E-02	10.7	4.36E-03	19.5
182	42.63	7.25E-03	15.4	5.17E-03	19.9
183	42.88	4.66E-03	26.7	8.89E-03	11.7
184	43.12	5.99E-03	19.4	2.85E-03	32.6
185	43.37	4.85E-03	23.3	4.16E-03	19.4
186	43.61	4.88E-03	23.0	5.75E-03	14.5
187	43.86	3.50E-03	30.5	6.20E-03	15.1
188	44.11	2.20E-03	35.0	4.98E-03	17.3

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	4.99E-03	22.7	5.05E-03	15.9
190	44.60	6.41E-03	15.8	5.98E-03	15.5
191	44.84	8.02E-03	12.9	6.99E-03	13.0
192	45.09	6.47E-03	15.8	3.75E-03	21.4
193	45.34	6.09E-03	17.1	6.37E-03	17.7
194	45.58	5.83E-03	21.0	2.96E-03	27.4
195	45.83	3.79E-03	32.2	7.05E-03	14.3
196	46.07	4.91E-03	25.5	8.10E-03	11.3
197	46.32	4.42E-03	26.7	7.39E-03	12.3
198	46.57	2.60E-03	****	5.14E-03	16.5
199	46.81	6.85E-03	17.1	6.85E-03	14.5
200	47.06	2.52E-03	****	2.50E-03	30.3
201	47.30	5.58E-03	20.3	1.95E-03	39.1
202	47.55	5.34E-03	20.3	5.72E-03	13.9
203	47.79	4.36E-03	24.6	3.69E-03	21.5
204	48.04	2.45E-03	31.9	6.64E-03	12.6
205	48.29	5.53E-03	14.9	2.53E-03	29.9
206	48.53	2.43E-03	****	6.78E-03	14.0
207	48.78	4.58E-03	25.6	3.96E-03	21.5
208	49.02	7.29E-03	16.0	8.12E-03	10.6
209	49.27	8.03E-03	14.2	7.54E-03	13.0
210	49.52	2.88E-03	37.5	7.95E-03	11.4
211	49.76	5.27E-03	20.2	7.36E-03	11.6
212	50.01	5.58E-03	20.5	4.47E-03	17.0
213	50.25	7.84E-03	13.4	6.56E-03	11.3
214	50.50	6.62E-03	15.8	8.24E-03	9.0
215	50.75	4.51E-03	18.6	9.11E-03	8.0
216	50.99	8.04E-03	10.8	1.33E-02	5.7
217	51.24	8.13E-03	10.4	9.97E-03	7.7
218	51.48	7.39E-03	11.6	4.94E-03	12.8
219	51.73	4.64E-03	20.3	9.46E-03	8.0
220	51.98	5.79E-03	16.9	6.52E-03	10.4
221	52.22	4.25E-03	17.6	7.12E-03	9.2
222	52.47	6.59E-03	13.7	7.29E-03	8.7
223	52.71	7.93E-03	10.8	6.90E-03	9.3
224	52.96	3.01E-03	22.5	7.41E-03	9.0
225	53.20	7.72E-03	9.9	8.37E-03	7.8
226	53.45	1.02E-02	7.8	1.04E-02	6.3
227	53.70	1.12E-02	6.8	9.27E-03	7.5
228	53.94	9.04E-03	8.3	1.19E-02	5.9
229	54.19	1.63E-02	4.8	1.25E-02	5.6
230	54.43	1.45E-02	5.4	4.33E-03	13.3
231	54.68	4.40E-03	15.7	6.66E-03	11.1
232	54.93	5.38E-03	12.6	8.76E-03	8.5
233	55.17	9.70E-03	8.5	6.75E-03	10.0
234	55.42	1.00E-02	8.3	8.48E-03	8.1
235	55.66	6.64E-03	11.5	7.96E-03	8.5

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	5.69E-03	13.8	8.63E-03	7.9
237	56.16	7.74E-03	9.6	8.19E-03	8.8
238	56.40	9.76E-03	8.1	1.03E-02	6.8
239	56.65	9.07E-03	8.8	7.64E-03	9.2
240	56.89	1.29E-02	5.9	1.29E-02	5.8
241	57.14	1.42E-02	5.4	1.16E-02	6.1
242	57.39	1.46E-02	5.2	8.44E-03	8.6
243	57.63	8.73E-03	8.5	7.45E-03	10.9
244	57.88	1.64E-02	5.5	9.46E-03	8.8
245	58.12	1.28E-02	6.5	8.63E-03	9.6
246	58.37	1.17E-02	7.5	5.78E-03	13.9
247	58.61	9.24E-03	8.8	6.79E-03	11.8
248	58.86	9.62E-03	9.2	8.32E-03	10.7
249	59.11	1.16E-02	7.7	7.11E-03	10.5
250	59.35	1.08E-02	8.2	9.00E-03	8.5
251	59.60	1.17E-02	7.0	8.53E-03	8.8
252	59.84	9.47E-03	8.3	9.56E-03	7.2
253	60.09	5.57E-03	4.9	1.13E-02	3.5
254	60.34	1.30E-02	4.9	1.61E-02	4.4
255	60.58	1.30E-02	5.7	5.59E-03	11.6
256	60.83	1.25E-02	6.1	7.91E-03	9.0
257	61.07	1.07E-02	6.9	8.72E-03	8.9
258	61.32	7.68E-03	9.4	7.40E-03	9.9
259	61.57	6.36E-03	10.1	8.41E-03	7.9
260	61.81	1.08E-02	6.4	7.65E-03	8.0
261	62.06	7.47E-03	8.3	1.32E-03	6.4
262	62.30	6.81E-03	7.8	1.22E-03	6.6
263	62.55	7.28E-03	7.1	1.35E-03	5.7
264	62.79	1.11E-02	4.9	1.52E-03	5.4
265	63.04	7.54E-03	6.4	8.86E-04	8.5
266	63.29	1.07E-02	4.8	1.32E-03	6.7
267	63.53	8.02E-03	5.7	1.07E-03	8.6
268	63.78	5.94E-03	7.2	9.18E-04	10.1
269	64.02	6.40E-03	6.2	8.60E-04	9.7
270	64.27	6.60E-03	6.0	8.23E-04	9.9
271	64.52	5.80E-03	6.8	9.61E-04	8.1
272	64.76	5.77E-03	6.5	1.10E-03	6.6
273	65.01	6.65E-03	5.4	1.01E-03	6.7
274	65.25	7.24E-03	4.8	1.16E-03	5.8
275	65.50	7.20E-03	4.8	1.13E-03	5.6
276	65.75	6.25E-03	5.9	1.30E-03	4.8
277	65.99	6.13E-03	5.6	1.61E-03	4.2
278	66.24	5.19E-03	6.6	1.41E-03	4.8
279	66.48	6.44E-03	5.8	1.80E-03	4.2
280	66.73	7.32E-03	5.6	2.00E-03	4.0
281	66.98	5.27E-03	7.4	2.07E-03	4.1
282	67.22	5.55E-03	6.2	1.28E-03	5.4

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	5.54E-03	6.5	1.08E-03	5.8
284	67.71	5.03E-03	6.4	9.57E-04	6.1
285	67.96	5.23E-03	5.9	7.97E-04	7.0
286	68.20	5.44E-03	5.6	9.00E-04	6.2
287	68.45	4.63E-03	6.2	9.08E-04	5.8
288	68.70	5.29E-03	5.6	1.18E-03	4.9
289	68.94	6.00E-03	5.7	1.10E-03	5.1
290	69.19	4.16E-03	6.8	3.94E-04	11.6
291	69.43	4.53E-03	6.4	7.26E-04	6.6
292	69.68	3.33E-03	8.7	5.54E-04	7.9
293	69.93	3.72E-03	7.7	5.57E-04	8.0
294	70.17	4.04E-03	6.9	5.02E-04	8.0
295	70.42	2.77E-03	9.0	5.43E-04	7.3
296	70.66	2.47E-03	8.9	5.27E-04	7.4
297	70.91	2.90E-03	7.3	4.59E-04	8.1
298	71.16	2.81E-03	7.5	4.27E-04	8.4
299	71.40	2.49E-03	8.4	3.90E-04	9.6
300	71.65	3.09E-03	7.1	5.36E-04	7.3
301	71.89	4.15E-03	5.5	6.42E-04	6.4
302	72.14	5.08E-03	5.1	1.07E-03	4.5
303	72.38	2.10E-03	14.8	1.27E-03	4.3
304	72.63	1.05E-03	****	1.54E-03	3.8
305	72.88	8.78E-03	4.0	1.53E-03	3.8
306	73.12	9.75E-03	4.3	1.41E-03	4.0
307	73.37	8.48E-03	4.5	1.56E-03	3.6
308	73.61	8.31E-03	4.5	1.68E-03	3.5
309	73.86	9.27E-03	4.0	1.56E-03	3.5
310	74.11	9.20E-03	3.9	1.55E-03	3.4
311	74.35	8.20E-03	4.2	1.48E-03	3.6
312	74.60	7.51E-03	4.3	4.06E-04	3.5
313	74.84	7.72E-03	4.1	4.37E-04	3.4
314	75.09	7.20E-03	4.2	4.55E-04	3.2
315	75.34	7.28E-03	2.7	2.10E-04	4.8
316	75.58	6.88E-03	2.7	1.88E-04	5.4
317	75.83	2.29E-03	6.5	1.07E-03	3.6
318	76.07	1.73E-03	6.9	9.83E-04	3.5
319	76.32	2.15E-03	4.7	9.84E-04	3.2
320	76.57	1.74E-03	5.2	8.75E-04	3.5
321	76.81	1.98E-03	4.4	8.80E-04	3.1
322	77.06	1.74E-03	4.9	6.55E-04	3.9
323	77.30	1.76E-03	4.5	5.50E-04	4.2
324	77.55	1.50E-03	4.9	5.88E-04	3.7
325	77.79	1.73E-03	4.2	5.14E-04	4.3
326	78.04	1.97E-03	4.1	5.68E-04	3.7
327	78.29	2.63E-03	3.3	6.73E-04	3.2
328	78.53	2.85E-03	3.3	5.29E-04	3.8
329	78.78	1.94E-03	4.6	5.61E-04	3.9

Table A-1 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	1.51E-03	6.0	4.68E-04	4.6
331	79.27	1.94E-03	4.4	3.67E-04	5.4
332	79.52	1.62E-03	4.8	3.29E-04	5.4
333	79.76	1.41E-03	5.1	8.47E-05	5.1
334	80.01	1.34E-03	4.8	7.99E-05	5.0
335	80.25	1.24E-03	5.1	8.58E-05	4.6
336	80.50	1.02E-03	5.6	7.80E-05	4.6
337	80.75	9.76E-04	5.6	6.97E-05	4.8
338	80.99	9.23E-04	5.7	7.00E-05	4.5
339	81.24	8.85E-04	5.5	7.07E-05	4.6
340	81.48	9.61E-04	5.2	7.24E-05	4.4
341	81.73	1.19E-03	4.5	3.73E-04	4.3
342	81.97	1.17E-03	4.5	4.35E-04	3.7
343	82.22	1.23E-03	4.6	3.81E-04	3.8
344	82.47	1.28E-03	4.5	3.63E-04	4.1
345	82.71	1.21E-03	4.2	3.72E-04	4.0
346	82.96	1.06E-03	4.7	3.44E-04	4.1
347	83.20	1.03E-03	4.7	3.28E-04	4.3
348	83.45	1.01E-03	4.6	3.22E-04	4.3
349	83.70	1.07E-03	4.3	3.11E-04	4.1
350	83.94	1.04E-03	4.4	2.97E-04	4.1
351	84.19	9.81E-04	3.2	1.45E-03	2.2
352	84.43	1.13E-03	2.9	1.30E-03	2.2
353	84.68	1.37E-03	2.3	1.74E-03	1.9
354	84.93	1.25E-03	2.4	4.64E-04	1.9
355	85.17	1.41E-03	2.3	4.06E-04	1.9
356	85.42	1.45E-03	2.1	3.36E-04	2.1
357	85.66	1.47E-03	1.9	3.19E-04	2.1
358	85.91	1.34E-03	2.0	2.78E-04	2.2
359	86.16	1.25E-03	2.0	2.31E-04	2.4
360	86.40	1.05E-03	2.2	2.09E-04	2.5
361	86.65	9.84E-04	2.2	1.81E-04	2.7
362	86.89	8.09E-04	2.5	1.78E-04	2.7
363	87.14	7.04E-04	2.6	1.53E-04	3.0
364	87.38	5.62E-04	2.9	1.17E-04	3.4
365	87.63	4.06E-04	3.6	8.24E-05	4.3
366	87.88	2.91E-04	4.3	1.47E-04	3.2
367	88.12	1.99E-04	5.2	1.68E-04	3.0
368	88.37	2.28E-04	4.9	1.21E-04	3.7
369	88.61	2.52E-04	4.8	8.06E-05	4.8
370	88.86	3.79E-04	4.1	7.29E-05	5.5
371	89.11	3.20E-04	5.1	7.67E-05	5.9
372	89.35	2.28E-04	6.7	7.80E-05	5.8
373	89.60	4.61E-04	4.3	6.78E-05	6.1
374	89.84	7.34E-04	3.4	3.50E-05	9.6

Table A-2. Axial distribution of ^{60}Co in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.19E-04	3.9	3.54E-03	1.5
2	0.37	1.86E-03	1.9	6.14E-04	2.9
3	0.61	1.96E-04	5.6	2.91E-04	4.3
4	0.86	2.41E-04	4.8	3.10E-04	4.2
5	1.11	2.38E-04	4.7	2.95E-04	5.0
6	1.35	2.69E-04	5.0	2.88E-04	5.6
7	1.60	3.21E-04	4.8	2.23E-04	7.6
8	1.84	2.72E-04	6.2	1.87E-04	9.7
9	2.09	2.88E-04	6.2	2.16E-04	9.3
10	2.34	2.55E-04	7.4	1.98E-04	10.2
11	2.58	2.02E-04	9.4	2.33E-04	9.5
12	2.83	2.26E-04	9.1	2.92E-04	7.8
13	3.07	2.42E-04	8.1	2.55E-04	9.0
14	3.32	2.66E-04	8.6	2.23E-04	10.5
15	3.57	2.09E-04	10.5	3.04E-04	8.2
16	3.81	2.46E-04	9.0	3.08E-04	8.1
17	4.06	2.66E-04	9.4	2.15E-04	11.7
18	4.30	2.82E-04	9.4	3.21E-04	9.2
19	4.55	3.03E-04	8.9	2.89E-04	10.7
20	4.80	3.39E-04	8.2	2.67E-04	11.4
21	5.04	2.30E-04	13.3	2.37E-04	13.9
22	5.29	3.68E-04	8.1	2.83E-04	12.4
23	5.53	2.65E-04	11.7	3.21E-04	11.5
24	5.78	3.62E-04	9.9	3.15E-04	12.4
25	6.02	1.93E-04	17.6	3.30E-04	14.5
26	6.27	2.18E-04	15.1	2.42E-04	17.2
27	6.52	3.50E-04	11.4	2.54E-04	16.3
28	6.76	3.59E-04	10.9	3.25E-04	16.0
29	7.01	3.67E-04	11.9	1.94E-04	23.8
30	7.25	3.22E-04	12.3	3.76E-04	15.4
31	7.50	2.54E-04	17.4	1.38E-04	35.4
32	7.75	3.81E-04	11.7	6.16E-04	17.4
33	7.99	2.61E-04	15.7	4.40E-04	21.9
34	8.24	3.59E-04	14.0	5.26E-04	19.5
35	8.48	4.35E-04	12.2	7.87E-04	14.6
36	8.73	5.16E-04	11.3	4.56E-04	24.4
37	8.98	8.89E-04	11.8	6.15E-04	15.5
38	9.22	8.56E-04	10.8	7.89E-04	12.7
39	9.47	8.32E-04	12.2	7.11E-04	14.1
40	9.71	7.28E-04	13.0	8.31E-04	12.6
41	9.96	3.83E-04	25.8	6.52E-04	16.9
42	10.20	8.39E-04	13.4	7.83E-04	14.0
43	10.45	8.41E-04	12.7	5.47E-04	20.7
44	10.70	7.83E-04	13.1	8.91E-04	13.1
45	10.94	5.41E-04	20.0	7.19E-04	18.9
46	11.19	6.77E-04	17.6	6.37E-04	20.2
47	11.43	9.59E-04	11.8	8.36E-04	15.6
48	11.68	1.06E-03	10.8	5.51E-04	22.7
49	11.93	9.75E-04	10.3	8.60E-04	15.6
50	12.17	8.63E-04	13.5	7.28E-04	18.8
51	12.42	1.06E-03	9.2	8.14E-04	19.7

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	5.94E-04	18.0	8.82E-04	16.3
53	12.91	8.80E-04	12.6	1.19E-03	11.4
54	13.16	9.49E-04	11.2	8.01E-04	15.9
55	13.40	9.73E-04	11.5	9.39E-04	14.2
56	13.65	9.57E-04	11.6	9.51E-04	15.1
57	13.89	7.58E-04	14.5	8.27E-04	15.5
58	14.14	9.60E-04	10.7	1.13E-03	12.6
59	14.39	1.01E-03	10.6	9.97E-04	15.6
60	14.63	8.72E-04	13.3	1.08E-03	13.1
61	14.88	1.12E-03	10.5	8.56E-04	17.1
62	15.12	1.03E-03	11.4	9.29E-04	15.5
63	15.37	1.02E-03	11.6	1.10E-03	12.9
64	15.61	1.29E-03	9.3	9.00E-04	15.3
65	15.86	1.24E-03	9.4	7.72E-04	17.4
66	16.11	1.32E-03	9.5	1.12E-03	11.3
67	16.35	1.31E-03	9.8	1.08E-03	14.4
68	16.60	1.21E-03	10.4	1.21E-03	11.3
69	16.84	1.08E-03	12.0	1.03E-03	13.2
70	17.09	1.19E-03	11.3	9.56E-04	14.7
71	17.34	1.44E-03	9.3	9.47E-04	14.0
72	17.58	1.21E-03	10.6	1.43E-03	10.7
73	17.83	1.34E-03	9.7	1.22E-03	12.6
74	18.07	1.31E-03	10.3	1.39E-03	11.9
75	18.32	1.55E-03	9.3	9.13E-04	16.5
76	18.57	1.22E-03	11.4	1.21E-03	15.5
77	18.81	9.05E-04	16.9	1.60E-03	11.2
78	19.06	1.29E-03	13.2	1.52E-03	11.8
79	19.30	4.82E-04	33.7	1.63E-03	10.4
80	19.55	1.46E-03	10.5	1.41E-03	11.9
81	19.79	1.12E-03	15.4	1.05E-03	15.7
82	20.04	1.53E-03	11.0	1.02E-03	16.5
83	20.29	1.28E-03	13.6	1.17E-03	16.0
84	20.53	1.02E-03	16.3	1.76E-03	10.6
85	20.78	1.63E-03	12.4	1.55E-03	14.7
86	21.02	1.81E-03	11.9	1.64E-03	13.9
87	21.27	2.23E-03	10.1	7.07E-03	4.8
88	21.52	4.49E-03	6.7	1.99E-02	2.5
89	21.76	9.23E-03	4.0	1.59E-02	2.9
90	22.01	8.72E-03	4.2	7.72E-03	4.9
91	22.25	7.94E-03	4.7	8.89E-03	4.5
92	22.50	7.69E-03	5.0	6.84E-03	5.4
93	22.75	7.44E-03	5.0	7.41E-03	5.0
94	22.99	8.29E-03	4.9	8.62E-03	4.7
95	23.24	8.16E-03	4.9	8.85E-03	4.7
96	23.48	9.16E-03	4.5	8.30E-03	4.8
97	23.73	7.52E-03	5.1	7.06E-03	5.4
98	23.98	6.36E-03	5.4	5.16E-03	6.4
99	24.22	3.53E-03	8.5	4.00E-03	7.0
100	24.47	2.69E-03	11.0	8.52E-04	26.5
101	24.71	2.45E-03	12.0	1.67E-03	16.9
102	24.96	1.45E-03	20.5	1.20E-03	24.0

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	6.72E-04	39.6	1.41E-03	19.2
104	25.45	1.62E-03	16.7	1.20E-03	28.9
105	25.70	1.30E-03	20.9	1.14E-03	29.8
106	25.94	2.16E-03	16.3	1.75E-03	19.1
107	26.19	2.49E-03	13.8	1.53E-03	16.5
108	26.43	2.84E-03	11.6	2.70E-03	10.2
109	26.68	1.72E-03	16.2	2.50E-03	11.4
110	26.93	3.31E-03	9.1	5.03E-03	6.5
111	27.17	4.72E-03	7.3	8.04E-03	4.6
112	27.42	7.45E-03	5.2	9.76E-03	4.3
113	27.66	9.20E-03	4.6	8.63E-03	4.6
114	27.91	7.72E-03	5.3	9.33E-03	4.3
115	28.16	9.85E-03	4.1	7.36E-03	5.2
116	28.40	8.45E-03	4.6	8.97E-03	4.4
117	28.65	8.06E-03	4.7	7.62E-03	4.7
118	28.89	8.33E-03	4.5	7.73E-03	4.3
119	29.14	8.06E-03	4.7	7.80E-03	4.1
120	29.39	8.09E-03	4.5	6.68E-03	4.7
121	29.63	7.47E-03	4.6	6.03E-03	5.0
122	29.88	1.19E-03	10.8	1.51E-04	****
123	30.12	3.53E-03	9.6	8.20E-04	14.6
124	30.37	2.15E-03	11.6	3.52E-03	12.1
125	30.61	2.14E-03	10.9	3.27E-03	9.6
126	30.86	1.53E-03	16.8	1.39E-03	19.7
127	31.11	1.48E-03	18.4	1.47E-03	14.5
128	31.35	1.28E-03	20.8	6.46E-04	35.9
129	31.60	1.64E-03	14.2	1.40E-03	18.8
130	31.84	1.71E-03	13.6	1.37E-03	19.5
131	32.09	1.54E-03	14.7	1.34E-03	17.4
132	32.34	1.39E-03	16.1	1.32E-03	17.9
133	32.58	1.53E-03	15.9	1.13E-03	21.1
134	32.83	1.22E-03	20.2	1.09E-03	21.6
135	33.07	4.67E-04	39.4	5.44E-04	****
136	33.32	8.56E-04	27.0	6.07E-04	38.7
137	33.57	8.55E-04	26.3	1.35E-03	15.0
138	33.81	4.99E-04	****	4.81E-04	****
139	34.06	8.36E-04	24.8	7.84E-04	25.5
140	34.30	4.62E-04	****	4.65E-04	****
141	34.55	5.67E-04	36.0	6.23E-04	31.9
142	34.79	4.69E-04	****	5.95E-04	26.2
143	35.04	4.94E-04	****	6.14E-04	34.4
144	35.29	6.44E-04	33.4	5.86E-04	36.9
145	35.53	9.42E-04	20.8	4.82E-04	****
146	35.78	5.96E-04	33.3	8.06E-04	25.0
147	36.02	4.90E-04	****	6.80E-04	32.1
148	36.27	1.07E-03	20.5	5.29E-04	37.2
149	36.52	8.08E-04	28.6	7.43E-04	30.2
150	36.76	1.05E-03	19.3	6.26E-04	26.7
151	37.01	1.25E-03	18.2	1.19E-03	18.0
152	37.25	1.21E-03	20.2	7.69E-04	22.0
153	37.50	1.20E-03	19.1	1.22E-03	17.5

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	1.43E-03	14.7	9.83E-04	17.8
155	37.99	1.45E-03	16.2	1.06E-03	21.7
156	38.24	1.71E-03	13.8	1.35E-03	16.8
157	38.48	1.70E-03	14.4	1.52E-03	14.8
158	38.73	2.39E-03	9.8	1.79E-03	12.1
159	38.98	1.86E-03	11.8	1.48E-03	15.2
160	39.22	2.90E-03	8.4	1.69E-03	12.6
161	39.47	2.80E-03	9.1	1.52E-03	14.1
162	39.71	1.92E-03	11.8	1.76E-03	12.5
163	39.96	2.93E-03	7.6	1.97E-03	11.4
164	40.20	1.72E-03	11.2	1.89E-03	11.6
165	40.45	1.34E-03	13.1	1.24E-03	15.3
166	40.70	7.97E-04	20.6	1.68E-03	11.4
167	40.94	1.09E-03	15.6	1.24E-03	15.0
168	41.19	1.29E-03	12.5	1.46E-03	12.0
169	41.43	7.72E-04	21.1	6.31E-04	29.5
170	41.68	6.42E-04	25.7	9.48E-04	15.9
171	41.93	7.98E-04	19.4	5.89E-04	27.5
172	42.17	9.47E-04	14.8	6.78E-04	22.5
173	42.42	1.01E-03	14.4	3.38E-04	33.4
174	42.66	4.77E-04	32.0	6.13E-04	25.4
175	42.91	3.33E-04	****	7.72E-04	17.8
176	43.16	3.08E-04	****	5.57E-04	26.2
177	43.40	3.39E-04	****	4.41E-04	31.8
178	43.65	3.45E-04	****	6.82E-04	22.2
179	43.89	3.19E-04	****	4.91E-04	27.9
180	44.14	3.28E-04	****	3.54E-04	39.7
181	44.39	3.45E-04	****	5.53E-04	26.5
182	44.63	4.77E-04	29.9	6.60E-04	21.9
183	44.88	3.40E-04	****	7.96E-04	18.6
184	45.12	4.65E-04	26.3	6.87E-04	22.3
185	45.37	5.73E-04	23.3	3.67E-04	****
186	45.61	3.30E-04	****	5.68E-04	26.5
187	45.86	5.16E-04	25.0	3.23E-04	****
188	46.11	4.97E-04	25.7	3.03E-04	****
189	46.35	2.79E-04	****	3.03E-04	****
190	46.60	2.86E-04	****	3.80E-04	36.5
191	46.84	5.06E-04	22.4	3.09E-04	****
192	47.09	2.82E-04	****	5.63E-04	21.0
193	47.34	3.65E-04	27.3	2.59E-04	****
194	47.58	2.91E-04	37.4	3.60E-04	30.2
195	47.83	3.84E-04	25.9	2.60E-04	****
196	48.07	2.57E-04	****	2.37E-04	****
197	48.32	2.36E-04	****	2.56E-04	****
198	48.57	4.17E-04	21.8	2.57E-04	39.9
199	48.81	2.39E-04	****	3.06E-04	38.3
200	49.06	3.08E-04	32.2	2.08E-04	****
201	49.30	2.16E-04	****	3.60E-04	27.7
202	49.55	2.27E-04	****	2.85E-04	34.5
203	49.79	3.29E-04	30.2	3.08E-04	29.4
204	50.04	2.11E-04	****	2.02E-04	****

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.44E-04	****	4.37E-04	20.8
206	50.53	2.25E-04	39.3	2.16E-04	****
207	50.78	2.77E-04	27.3	3.24E-04	25.7
208	51.02	3.81E-04	21.1	1.99E-04	****
209	51.27	2.08E-04	****	2.40E-04	33.7
210	51.52	1.96E-04	****	3.32E-04	23.3
211	51.76	1.90E-04	39.7	3.24E-04	25.2
212	52.01	2.00E-04	****	1.73E-04	****
213	52.25	1.85E-04	****	1.88E-04	****
214	52.50	1.82E-04	****	1.78E-04	****
215	52.75	2.14E-04	34.3	2.02E-04	****
216	52.99	3.43E-04	21.0	2.28E-04	36.6
217	53.24	2.25E-04	34.0	1.60E-04	****
218	53.48	1.92E-04	****	2.39E-04	34.2
219	53.73	1.94E-04	****	1.74E-04	****
220	53.98	2.72E-04	28.0	2.16E-04	37.2
221	54.22	2.54E-04	30.6	2.34E-04	33.7
222	54.47	1.68E-04	****	1.74E-04	****
223	54.71	1.79E-04	****	2.74E-04	28.5
224	54.96	2.46E-04	31.4	1.95E-04	****
225	55.20	2.10E-04	****	1.61E-04	****
226	55.45	2.09E-04	33.6	2.52E-04	26.5
227	55.70	2.02E-04	39.6	1.65E-04	****
228	55.94	2.46E-04	33.3	1.78E-04	****
229	56.19	1.71E-04	****	1.81E-04	****
230	56.43	1.81E-04	****	1.78E-04	****
231	56.68	1.99E-04	****	2.30E-04	30.9
232	56.93	1.89E-04	****	3.06E-04	25.2
233	57.17	1.90E-04	****	1.59E-04	****
234	57.42	2.91E-04	28.9	3.44E-04	22.1
235	57.66	2.73E-04	29.7	2.58E-04	29.9
236	57.91	2.07E-04	****	2.81E-04	26.2
237	58.16	1.82E-04	****	1.89E-04	****
238	58.40	1.96E-04	****	1.82E-04	****
239	58.65	2.25E-04	****	1.76E-04	****
240	58.89	2.79E-04	32.6	1.69E-04	****
241	59.14	4.48E-04	26.7	3.27E-04	25.2
242	59.39	2.33E-04	****	2.37E-04	****
243	59.63	2.03E-04	****	2.32E-04	****
244	59.88	1.90E-04	****	2.88E-04	27.3
245	60.12	1.92E-04	****	1.75E-04	****
246	60.37	2.58E-04	34.2	1.90E-04	****
247	60.61	1.71E-04	****	1.99E-04	****
248	60.86	2.09E-04	****	1.81E-04	****
249	61.11	2.11E-04	34.3	1.51E-04	29.4
250	61.35	9.14E-05	****	8.76E-05	****
251	61.60	8.49E-05	****	8.86E-05	****
252	61.84	8.20E-05	****	1.13E-04	31.6
253	62.09	7.54E-05	****	8.55E-05	****
254	62.34	8.89E-05	36.9	1.21E-04	33.1
255	62.58	1.18E-04	26.5	8.20E-05	****

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	8.25E-05	37.2	1.52E-04	23.3
257	63.07	6.96E-05	****	9.83E-05	37.5
258	63.32	6.73E-05	****	8.03E-05	****
259	63.57	9.95E-05	30.9	6.70E-05	37.1
260	63.81	1.16E-04	25.3	1.18E-04	30.7
261	64.06	9.39E-05	30.9	8.00E-05	****
262	64.30	1.50E-04	21.6	9.63E-05	34.4
263	64.55	1.35E-04	18.1	1.27E-04	27.3
264	64.79	2.19E-04	14.4	2.48E-04	14.1
265	65.04	1.65E-04	17.2	2.48E-04	13.9
266	65.29	3.06E-04	10.5	1.90E-04	16.6
267	65.53	1.74E-04	16.4	1.59E-04	19.9
268	65.78	2.53E-04	13.2	1.74E-04	18.9
269	66.02	1.21E-04	24.3	1.80E-04	19.3
270	66.27	2.07E-04	13.7	2.41E-04	14.0
271	66.52	2.59E-04	11.4	2.79E-04	13.2
272	66.76	2.85E-04	12.8	3.66E-04	10.4
273	67.01	2.93E-04	10.9	2.05E-04	17.3
274	67.25	4.22E-04	8.0	3.79E-04	10.1
275	67.50	3.08E-04	10.4	4.45E-04	8.3
276	67.75	4.12E-04	8.1	4.14E-04	8.5
277	67.99	3.68E-04	9.2	4.32E-04	8.0
278	68.24	4.15E-04	9.0	5.01E-04	6.5
279	68.48	4.43E-04	8.1	4.67E-04	7.8
280	68.73	3.46E-04	8.9	4.01E-04	8.5
281	68.98	3.66E-04	8.2	4.01E-04	7.9
282	69.22	3.59E-04	8.6	3.58E-04	7.7
283	69.47	5.22E-04	6.3	3.64E-04	7.8
284	69.71	5.71E-04	5.7	4.80E-04	6.5
285	69.96	5.57E-04	6.1	5.48E-04	5.9
286	70.20	7.18E-04	4.9	5.93E-04	5.6
287	70.45	9.10E-04	4.3	6.23E-04	5.4
288	70.70	1.01E-03	4.2	8.55E-04	4.4
289	70.94	1.24E-03	3.5	1.05E-03	3.8
290	71.19	1.10E-03	3.8	1.27E-03	3.4
291	71.43	1.31E-03	3.4	1.35E-03	3.1
292	71.68	1.16E-03	3.7	1.33E-03	3.2
293	71.93	1.24E-03	3.5	1.31E-03	3.2
294	72.17	1.19E-03	3.5	1.27E-03	3.2
295	72.42	1.26E-03	3.3	1.23E-03	3.3
296	72.66	1.31E-03	3.2	1.17E-03	3.3
297	72.91	1.32E-03	3.2	1.32E-03	3.0
298	73.16	1.43E-03	2.9	1.38E-03	3.0
299	73.40	1.57E-03	2.7	1.49E-03	2.8
300	73.65	1.82E-03	2.1	1.83E-03	2.0
301	73.89	1.85E-03	1.9	2.07E-03	1.7
302	74.14	1.41E-03	1.9	1.92E-03	1.7
303	74.38	1.04E-03	2.1	1.22E-03	2.1
304	74.63	1.00E-03	2.1	9.73E-04	2.2
305	74.88	1.07E-03	1.9	9.11E-04	2.3
306	75.12	1.06E-03	1.9	9.34E-04	2.1

Table A-2 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.19E-03	1.8	8.72E-04	2.2
308	75.61	1.23E-03	1.7	9.33E-04	2.1
309	75.86	1.30E-03	1.6	1.00E-03	1.9
310	76.11	1.31E-03	1.6	9.73E-04	2.0
311	76.35	1.47E-03	1.5	1.10E-03	1.8
312	76.60	1.50E-03	1.5	1.30E-03	1.6
313	76.84	1.56E-03	1.5	1.67E-03	1.4
314	77.09	1.30E-03	1.6	1.91E-03	1.3
315	77.34	1.15E-03	1.8	1.96E-03	1.3
316	77.58	1.01E-03	1.9	1.65E-03	1.5
317	77.83	8.87E-04	2.0	1.29E-03	1.7
318	78.07	7.32E-04	2.2	1.09E-03	1.8
319	78.32	6.42E-04	2.4	8.53E-04	2.0
320	78.57	5.91E-04	2.4	7.58E-04	2.2
321	78.81	5.24E-04	2.6	6.22E-04	1.7
322	79.06	5.32E-04	2.5	5.21E-04	1.8
323	79.30	6.23E-04	1.4	5.31E-04	1.8
324	79.55	6.62E-04	1.4	5.75E-04	1.6
325	79.79	5.71E-04	1.5	6.22E-04	1.5
326	80.04	5.21E-04	1.7	6.38E-04	1.5
327	80.29	4.23E-04	2.0	6.31E-04	1.7
328	80.53	4.23E-04	2.0	4.43E-04	2.6
329	80.78	3.38E-04	2.4	4.43E-04	3.3
330	81.02	3.91E-04	2.2	3.87E-04	3.7
331	81.27	3.73E-04	2.4	3.97E-04	3.6
332	81.52	3.89E-04	2.4	3.80E-04	4.0
333	81.76	4.17E-04	2.3	4.45E-04	3.6
334	82.01	4.22E-04	2.3	4.52E-04	3.5
335	82.25	4.32E-04	2.2	4.21E-04	3.8
336	82.50	5.49E-04	1.8	4.45E-04	3.5
337	82.75	8.31E-04	1.2	5.85E-04	2.7
338	82.99	1.13E-03	1.0	8.54E-04	2.1
339	83.24	1.28E-03	0.9	1.56E-03	1.4
340	83.48	1.11E-03	1.0	1.85E-03	1.4
341	83.73	8.55E-04	1.0	1.55E-03	1.4
342	83.97	6.46E-04	1.2	1.09E-03	1.0
343	84.22	5.02E-04	1.3	7.88E-04	1.1
344	84.47	4.52E-04	1.3	6.19E-04	1.2
345	84.71	3.86E-04	1.4	5.44E-04	1.3
346	84.96	3.58E-04	1.4	4.65E-04	1.3
347	85.20	3.32E-04	1.5	4.44E-04	1.3
348	85.45	3.39E-04	1.5	4.01E-04	1.4
349	85.70	3.72E-04	1.4	4.02E-04	1.4
350	85.94	3.71E-04	1.4	4.42E-04	1.3
351	86.19	1.97E-04	1.9	4.33E-04	1.3
352	86.43	1.49E-04	2.2	2.86E-04	1.6
353	86.68	1.49E-04	2.2	2.15E-04	1.8
354	86.93	1.45E-04	2.2	2.06E-04	1.8
355	87.17	1.30E-04	2.4	1.86E-04	1.9
356	87.42	1.28E-04	2.4	1.62E-04	2.1
357	87.66	1.22E-04	2.5	1.43E-04	2.2
358	87.91	1.17E-04	2.5	1.34E-04	2.3

Table A-3. Axial distribution of ^{106}Ru in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	2.35E-03	****	2.81E-03	****
2	1.63	2.14E-03	****	2.79E-03	****
3	1.39	2.03E-03	****	2.90E-03	****
4	1.14	1.98E-03	****	2.99E-03	****
5	0.89	2.07E-03	****	3.17E-03	****
6	0.65	2.55E-03	****	4.49E-03	****
7	0.40	4.81E-03	****	5.28E-03	****
8	0.16	8.69E-03	****	2.48E-03	****
9	0.09	5.68E-03	****	2.10E-03	****
10	0.34	3.33E-03	****	1.64E-03	****
11	0.58	3.16E-03	****	1.58E-03	****
12	0.83	3.01E-03	****	1.49E-03	****
13	1.07	2.97E-03	****	1.45E-03	****
14	1.32	3.02E-03	****	1.44E-03	****
15	1.57	2.97E-03	****	1.51E-03	****
16	1.81	2.92E-03	****	1.48E-03	****
17	2.06	3.00E-03	****	1.59E-03	****
18	2.30	3.09E-03	****	2.05E-03	****
19	2.55	3.33E-03	****	2.61E-03	****
20	2.80	4.17E-03	****	2.61E-03	****
21	3.04	4.12E-03	****	2.38E-03	****
22	3.29	3.42E-03	****	2.33E-03	****
23	3.53	3.36E-03	****	2.35E-03	****
24	3.78	3.39E-03	****	2.46E-03	****
25	4.02	3.36E-03	****	2.65E-03	****
26	4.27	3.43E-03	****	2.98E-03	****
27	4.52	3.52E-03	****	3.36E-03	****
28	4.76	4.15E-03	****	3.85E-03	****
29	5.01	5.02E-03	****	4.87E-03	****
30	5.25	6.03E-03	****	8.32E-03	****
31	5.50	8.12E-03	****	1.10E-02	****
32	5.75	1.22E-02	****	1.10E-02	****
33	5.99	1.19E-02	****	7.90E-03	****
34	6.24	7.71E-03	****	5.81E-03	****
35	6.48	5.04E-03	****	5.56E-03	****
36	6.73	4.69E-03	****	5.83E-03	****
37	6.98	4.75E-03	****	6.26E-03	****
38	7.22	5.00E-03	****	6.41E-03	****
39	7.47	5.11E-03	****	6.97E-03	****
40	7.71	5.16E-03	****	7.26E-03	****
41	7.96	5.48E-03	****	7.75E-03	****
42	8.20	6.07E-03	****	9.18E-03	****
43	8.45	7.53E-03	****	1.13E-02	****
44	8.70	1.12E-02	****	1.19E-02	****
45	8.94	1.16E-02	****	1.55E-01	****
46	9.19	1.00E-02	****	1.24E-02	****
47	9.43	8.42E-03	****	1.16E-02	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	8.25E-03	****	1.17E-02	****
49	9.93	8.46E-03	****	1.21E-02	****
50	10.17	8.36E-03	****	1.22E-02	****
51	10.42	8.40E-03	****	1.30E-02	****
52	10.66	8.71E-03	****	1.27E-02	****
53	10.91	8.85E-03	****	1.38E-02	****
54	11.16	9.85E-03	****	1.44E-02	****
55	11.40	1.04E-02	****	1.61E-02	****
56	11.65	1.21E-02	****	1.95E-02	****
57	11.89	1.39E-02	****	1.86E-02	****
58	12.14	1.49E-02	****	1.81E-02	****
59	12.39	1.61E-02	****	1.84E-02	****
60	12.63	1.81E-02	****	1.94E-02	****
61	12.88	1.97E-02	****	1.82E-01	****
62	13.12	4.44E-02	****	4.57E-02	****
63	13.37	4.75E-02	****	4.70E-02	****
64	13.61	4.81E-02	****	4.93E-02	****
65	13.86	5.07E-02	****	5.18E-02	****
66	14.11	5.30E-02	****	5.44E-02	****
67	14.35	5.56E-02	****	5.66E-02	****
68	14.60	5.80E-02	****	5.85E-02	****
69	14.84	6.31E-02	****	6.37E-02	****
70	15.09	6.02E-02	****	5.74E-02	****
71	15.34	4.40E-02	****	4.58E-02	****
72	15.58	3.97E-02	****	4.52E-02	****
73	15.83	4.03E-02	****	4.50E-02	****
74	16.07	4.19E-02	****	4.88E-02	****
75	16.32	4.51E-02	****	5.09E-02	****
76	16.57	4.69E-02	****	5.43E-02	****
77	16.81	5.05E-02	****	5.95E-02	****
78	17.06	5.58E-02	****	6.39E-02	****
79	17.30	5.99E-02	****	7.35E-02	****
80	17.55	6.90E-02	****	8.21E-02	****
81	17.79	7.72E-02	****	9.17E-02	****
82	18.04	9.04E-02	****	1.04E-01	****
83	18.29	9.28E-02	****	9.96E-02	****
84	18.53	9.40E-02	****	1.01E-01	****
85	18.78	9.63E-02	****	1.07E-01	****
86	19.02	1.01E-01	****	1.11E-01	****
87	19.27	1.06E-01	****	1.16E-01	****
88	19.52	1.14E-01	****	1.24E-01	****
89	19.76	1.15E-01	****	1.29E-01	****
90	20.01	1.19E-01	****	1.35E-01	****
91	20.25	1.28E-01	****	1.44E-01	****
92	20.50	1.29E-01	****	1.43E-01	****
93	20.75	1.37E-01	****	1.47E-01	****
94	20.99	1.59E-01	****	1.72E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	1.57E-01	****	1.57E-01	****
96	21.48	1.42E-01	****	1.31E-01	****
97	21.73	1.42E-01	****	1.32E-01	****
98	21.98	1.50E-01	****	1.37E-01	****
99	22.22	1.54E-01	****	1.45E-01	****
100	22.47	1.60E-01	****	1.48E-01	****
101	22.71	1.67E-01	****	1.55E-01	****
102	22.96	1.65E-01	****	1.50E-01	****
103	23.20	1.71E-01	****	1.50E-01	****
104	23.45	1.80E-01	****	1.56E-01	****
105	23.70	1.87E-01	****	1.62E-01	****
106	23.94	2.15E-01	****	1.86E-01	****
107	24.19	2.13E-01	****	1.97E-01	****
108	24.43	1.86E-01	****	1.77E-01	****
109	24.68	1.88E-01	****	1.63E-01	****
110	24.93	1.84E-01	****	1.58E-01	****
111	25.17	1.87E-01	****	1.66E-01	****
112	25.42	1.90E-01	****	1.68E-01	****
113	25.66	1.97E-01	****	1.65E-01	****
114	25.91	2.02E-01	****	1.72E-01	****
115	26.16	2.00E-01	****	1.58E-01	****
116	26.40	1.97E-01	****	1.60E-01	****
117	26.65	1.98E-01	****	1.63E-01	****
118	26.89	1.92E-01	****	1.62E-01	****
119	27.14	1.96E-01	****	1.95E-01	****
120	27.39	1.91E-01	****	1.88E-01	****
121	27.63	1.87E-01	****	1.54E-01	****
122	27.88	1.95E-01	****	1.52E-01	****
123	28.12	1.94E-01	****	1.43E-01	****
124	28.37	1.97E-01	****	1.49E-01	****
125	28.61	1.93E-01	****	1.45E-01	****
126	28.86	1.87E-01	****	1.41E-01	****
127	29.11	2.01E-01	****	1.49E-01	****
128	29.35	1.87E-01	****	1.41E-01	****
129	29.60	1.94E-01	****	1.45E-01	****
130	29.84	1.99E-01	****	1.64E-01	****
131	30.09	1.49E-01	****	8.13E-02	****
132	30.34	2.24E-01	****	2.04E-01	****
133	30.58	2.10E-01	****	2.27E-01	****
134	30.83	2.07E-01	****	2.34E-01	****
135	31.07	2.21E-01	****	2.35E-01	****
136	31.32	2.29E-01	****	2.34E-01	****
137	31.57	2.35E-01	****	2.34E-01	****
138	31.81	2.50E-01	****	2.28E-01	****
139	32.06	2.52E-01	****	2.41E-01	****
140	32.30	2.55E-01	****	2.29E-01	****
141	32.55	2.61E-01	****	2.19E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	2.56E-01	****	2.32E-01	****
143	33.04	2.62E-01	****	2.31E-01	****
144	33.29	2.86E-01	****	2.44E-01	****
145	33.53	2.78E-01	****	2.40E-01	****
146	33.78	2.79E-01	****	2.39E-01	****
147	34.02	2.72E-01	****	2.30E-01	****
148	34.27	2.65E-01	****	2.26E-01	****
149	34.52	2.53E-01	****	2.19E-01	****
150	34.76	2.39E-01	****	2.18E-01	****
151	35.01	2.41E-01	****	2.17E-01	****
152	35.25	2.38E-01	****	2.14E-01	****
153	35.50	2.32E-01	****	2.12E-01	****
154	35.75	2.30E-01	****	2.14E-01	****
155	35.99	2.28E-01	****	2.17E-01	****
156	36.24	2.49E-01	****	2.33E-01	****
157	36.48	2.70E-01	****	2.55E-01	****
158	36.73	2.53E-01	****	2.44E-01	****
159	36.98	2.57E-01	****	2.49E-01	****
160	37.22	2.38E-01	****	2.39E-01	****
161	37.47	2.37E-01	****	2.29E-01	****
162	37.71	2.34E-01	****	2.28E-01	****
163	37.96	2.28E-01	****	2.26E-01	****
164	38.20	2.28E-01	****	2.12E-01	****
165	38.45	2.26E-01	****	2.16E-01	****
166	38.70	2.24E-01	****	2.15E-01	****
167	38.94	2.20E-01	****	2.11E-01	****
168	39.19	2.23E-01	****	2.12E-01	****
169	39.43	2.50E-01	****	2.32E-01	****
170	39.68	2.95E-01	****	2.36E-01	****
171	39.93	4.68E-01	****	2.25E-01	****
172	40.17	2.48E-01	****	2.29E-01	****
173	40.42	2.55E-01	****	2.30E-01	****
174	40.66	2.44E-01	****	2.23E-01	****
175	40.91	2.48E-01	****	2.26E-01	****
176	41.16	2.38E-01	****	2.16E-01	****
177	41.40	2.34E-01	****	2.10E-01	****
178	41.65	2.35E-01	****	2.14E-01	****
179	41.89	2.33E-01	****	2.13E-01	****
180	42.14	2.28E-01	****	2.26E-01	****
181	42.39	2.46E-01	****	2.57E-01	****
182	42.63	2.77E-01	****	2.49E-01	****
183	42.88	2.91E-01	****	2.42E-01	****
184	43.12	2.76E-01	****	2.39E-01	****
185	43.37	2.75E-01	****	2.34E-01	****
186	43.61	2.75E-01	****	2.36E-01	****
187	43.86	2.68E-01	****	2.32E-01	****
188	44.11	2.71E-01	****	2.43E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	2.76E-01	****	2.30E-01	****
190	44.60	2.62E-01	****	2.29E-01	****
191	44.84	2.63E-01	****	2.26E-01	****
192	45.09	2.56E-01	****	2.22E-01	****
193	45.34	2.66E-01	****	2.64E-01	****
194	45.58	3.03E-01	****	2.65E-01	****
195	45.83	2.97E-01	****	2.41E-01	****
196	46.07	2.99E-01	****	2.37E-01	****
197	46.32	2.88E-01	****	2.39E-01	****
198	46.57	2.90E-01	****	2.41E-01	****
199	46.81	2.93E-01	****	2.40E-01	****
200	47.06	2.82E-01	****	2.35E-01	****
201	47.30	2.86E-01	****	2.34E-01	****
202	47.55	2.67E-01	****	2.24E-01	****
203	47.79	2.57E-01	****	2.21E-01	****
204	48.04	2.48E-01	****	2.16E-01	****
205	48.29	2.35E-01	****	2.30E-01	****
206	48.53	2.68E-01	****	2.59E-01	****
207	48.78	2.90E-01	****	2.39E-01	****
208	49.02	2.72E-01	****	2.28E-01	****
209	49.27	2.69E-01	****	2.30E-01	****
210	49.52	2.64E-01	****	2.19E-01	****
211	49.76	2.64E-01	****	2.06E-01	****
212	50.01	2.68E-01	****	2.09E-01	****
213	50.25	2.51E-01	****	1.97E-01	****
214	50.50	2.44E-01	****	1.93E-01	****
215	50.75	2.38E-01	****	1.84E-01	****
216	50.99	2.17E-01	****	1.74E-01	****
217	51.24	2.10E-01	****	1.84E-01	****
218	51.48	2.19E-01	****	2.05E-01	****
219	51.73	2.47E-01	****	1.88E-01	****
220	51.98	2.32E-01	****	1.74E-01	****
221	52.22	2.12E-01	****	1.72E-01	****
222	52.47	2.15E-01	****	1.74E-01	****
223	52.71	2.07E-01	****	1.75E-01	****
224	52.96	2.01E-01	****	1.70E-01	****
225	53.20	1.98E-01	****	1.69E-01	****
226	53.45	1.95E-01	****	1.63E-01	****
227	53.70	1.84E-01	****	1.67E-01	****
228	53.94	1.81E-01	****	1.59E-01	****
229	54.19	1.71E-01	****	1.59E-01	****
230	54.43	1.69E-01	****	1.71E-01	****
231	54.68	1.81E-01	****	1.84E-01	****
232	54.93	1.97E-01	****	1.88E-01	****
233	55.17	2.03E-01	****	1.87E-01	****
234	55.42	1.98E-01	****	1.78E-01	****
235	55.66	1.97E-01	****	1.84E-01	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	2.04E-01	****	1.76E-01	****
237	56.16	1.93E-01	****	1.80E-01	****
238	56.40	1.94E-01	****	1.80E-01	****
239	56.65	1.88E-01	****	1.73E-01	****
240	56.89	1.79E-01	****	1.70E-01	****
241	57.14	1.68E-01	****	1.66E-01	****
242	57.39	1.67E-01	****	1.95E-01	****
243	57.63	1.81E-01	****	2.11E-01	****
244	57.88	1.86E-01	****	2.07E-01	****
245	58.12	1.94E-01	****	2.12E-01	****
246	58.37	2.07E-01	****	2.15E-01	****
247	58.61	2.12E-01	****	2.15E-01	****
248	58.86	2.20E-01	****	2.14E-01	****
249	59.11	2.24E-01	****	2.03E-01	****
250	59.35	2.18E-01	****	2.04E-01	****
251	59.60	2.09E-01	****	1.94E-01	****
252	59.84	2.05E-01	****	1.79E-01	****
253	60.09	6.07E-02	****	8.81E-02	37.4
254	60.34	1.49E-01	****	1.65E-01	****
255	60.58	1.64E-01	****	1.87E-01	****
256	60.83	1.73E-01	****	1.93E-01	****
257	61.07	1.86E-01	****	2.46E-01	37.2
258	61.32	1.84E-01	****	1.77E-01	****
259	61.57	1.71E-01	****	1.67E-01	****
260	61.81	1.70E-01	****	1.60E-01	****
261	62.06	1.53E-01	****	1.73E-02	****
262	62.30	1.36E-01	****	1.61E-02	****
263	62.55	1.24E-01	****	1.48E-02	****
264	62.79	1.14E-01	****	1.48E-02	****
265	63.04	1.19E-01	****	1.68E-02	****
266	63.29	1.18E-01	****	1.78E-02	****
267	63.53	1.11E-01	****	1.95E-02	****
268	63.78	1.11E-01	****	1.97E-02	****
269	64.02	1.03E-01	****	1.84E-02	****
270	64.27	1.02E-01	****	1.81E-02	****
271	64.52	9.91E-02	****	1.68E-02	****
272	64.76	8.87E-02	****	1.52E-02	****
273	65.01	8.74E-02	****	1.41E-02	****
274	65.25	8.08E-02	****	1.25E-02	****
275	65.50	7.86E-02	****	1.16E-02	****
276	65.75	7.83E-02	****	1.10E-02	****
277	65.99	8.08E-02	****	1.15E-02	****
278	66.24	8.81E-02	****	1.24E-02	****
279	66.48	9.65E-02	****	1.28E-02	****
280	66.73	9.90E-02	****	1.34E-02	****
281	66.98	1.00E-01	****	1.34E-02	****
282	67.22	9.10E-02	****	1.30E-02	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	8.82E-02	****	1.28E-02	****
284	67.71	8.10E-02	****	1.23E-02	****
285	67.96	7.77E-02	****	1.17E-02	****
286	68.20	7.49E-02	****	1.15E-02	****
287	68.45	7.04E-02	****	1.07E-02	****
288	68.70	6.77E-02	****	1.03E-02	****
289	68.94	7.08E-02	****	1.05E-02	****
290	69.19	6.96E-02	****	1.09E-02	****
291	69.43	7.27E-02	****	1.04E-02	****
292	69.68	8.03E-02	****	1.01E-02	****
293	69.93	7.52E-02	****	9.85E-03	****
294	70.17	7.33E-02	****	9.69E-03	****
295	70.42	6.65E-02	****	9.39E-03	****
296	70.66	6.53E-02	****	9.06E-03	****
297	70.91	6.35E-02	****	9.09E-03	****
298	71.16	5.88E-02	****	8.77E-03	****
299	71.40	5.70E-02	****	8.06E-03	****
300	71.65	5.32E-02	****	7.96E-03	****
301	71.89	5.24E-02	****	8.25E-03	****
302	72.14	5.56E-02	****	8.30E-03	****
303	72.38	4.81E-02	****	8.61E-03	****
304	72.63	8.08E-02	****	8.76E-03	****
305	72.88	6.33E-02	****	8.55E-03	****
306	73.12	7.74E-02	****	8.24E-03	****
307	73.37	8.02E-02	****	7.80E-03	****
308	73.61	6.99E-02	****	7.35E-03	****
309	73.86	6.96E-02	****	6.87E-03	****
310	74.11	6.24E-02	****	6.41E-03	****
311	74.35	5.62E-02	****	6.12E-03	****
312	74.60	5.22E-02	****	1.55E-03	****
313	74.84	4.57E-02	****	1.52E-03	****
314	75.09	4.38E-02	****	1.50E-03	****
315	75.34	2.33E-02	****	1.56E-03	****
316	75.58	2.23E-02	****	1.49E-03	****
317	75.83	2.49E-02	****	6.34E-03	****
318	76.07	2.29E-02	****	5.49E-03	****
319	76.32	1.85E-02	****	4.96E-03	****
320	76.57	1.63E-02	****	4.89E-03	****
321	76.81	1.51E-02	****	4.29E-03	****
322	77.06	1.44E-02	****	4.08E-03	****
323	77.30	1.37E-02	****	4.00E-03	****
324	77.55	1.28E-02	****	4.75E-03	38.6
325	77.79	1.29E-02	****	3.69E-03	****
326	78.04	1.28E-02	****	3.40E-03	****
327	78.29	1.24E-02	****	3.26E-03	****
328	78.53	1.29E-02	****	3.52E-03	****
329	78.78	1.45E-02	****	3.75E-03	****

Table A-3 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	1.72E-02	****	3.99E-03	****
331	79.27	1.54E-02	****	3.69E-03	****
332	79.52	1.31E-02	****	3.51E-03	****
333	79.76	1.29E-02	****	9.00E-04	****
334	80.01	1.15E-02	****	8.42E-04	****
335	80.25	1.09E-02	****	7.83E-04	****
336	80.50	1.05E-02	****	7.16E-04	****
337	80.75	9.77E-03	****	6.25E-04	****
338	80.99	9.28E-03	****	5.79E-04	****
339	81.24	8.43E-03	****	5.37E-04	****
340	81.48	8.50E-03	****	5.29E-04	****
341	81.73	9.28E-03	****	2.45E-03	****
342	81.97	9.11E-03	****	2.55E-03	****
343	82.22	9.50E-03	****	2.46E-03	****
344	82.47	8.97E-03	****	2.40E-03	****
345	82.71	7.92E-03	****	2.33E-03	****
346	82.96	7.90E-03	****	2.21E-03	****
347	83.20	7.39E-03	****	2.06E-03	****
348	83.45	8.97E-03	34.9	1.90E-03	****
349	83.70	6.56E-03	****	1.70E-03	****
350	83.94	5.82E-03	****	1.52E-03	****
351	84.19	4.07E-03	****	3.55E-03	****
352	84.43	4.05E-03	****	2.90E-03	****
353	84.68	3.67E-03	****	3.11E-03	****
354	84.93	3.37E-03	****	8.73E-04	****
355	85.17	3.55E-03	****	7.21E-04	****
356	85.42	2.89E-03	****	5.96E-04	****
357	85.66	2.35E-03	****	4.77E-04	****
358	85.91	1.95E-03	****	3.92E-04	****
359	86.16	1.98E-03	39.4	3.37E-04	****
360	86.40	1.43E-03	****	2.87E-04	****
361	86.65	1.23E-03	****	3.72E-04	35.5
362	86.89	1.15E-03	****	2.84E-04	****
363	87.14	1.10E-03	****	2.87E-04	****
364	87.38	1.05E-03	****	2.99E-04	****
365	87.63	1.05E-03	****	3.34E-04	****
366	87.88	1.15E-03	****	3.40E-04	****
367	88.12	1.17E-03	****	3.58E-04	****
368	88.37	1.22E-03	****	3.84E-04	****
369	88.61	1.28E-03	****	4.68E-04	****
370	88.86	1.49E-03	****	5.41E-04	****
371	89.11	2.04E-03	39.7	6.15E-04	****
372	89.35	2.01E-03	****	6.87E-04	****
373	89.60	2.26E-03	****	7.36E-04	****
374	89.84	2.49E-03	****	7.76E-04	****

Table A-4. Axial distribution of ^{106}Ru in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.31E-03	*****	4.75E-03	*****
2	0.37	3.76E-03	*****	2.86E-03	*****
3	0.61	2.33E-03	*****	2.59E-03	*****
4	0.86	2.34E-03	*****	2.75E-03	*****
5	1.11	2.40E-03	*****	3.05E-03	*****
6	1.35	2.74E-03	*****	3.53E-03	*****
7	1.60	3.20E-03	*****	4.06E-03	*****
8	1.84	3.55E-03	*****	4.50E-03	*****
9	2.09	3.95E-03	*****	5.43E-03	*****
10	2.34	4.71E-03	*****	5.20E-03	*****
11	2.58	4.95E-03	*****	6.11E-03	*****
12	2.83	5.25E-03	*****	6.27E-03	*****
13	3.07	5.40E-03	*****	6.96E-03	*****
14	3.32	5.80E-03	*****	7.00E-03	*****
15	3.57	6.05E-03	*****	7.21E-03	*****
16	3.81	6.47E-03	*****	7.55E-03	*****
17	4.06	6.92E-03	*****	8.15E-03	*****
18	4.30	7.45E-03	*****	8.80E-03	*****
19	4.55	7.89E-03	*****	9.35E-03	*****
20	4.80	8.28E-03	*****	9.84E-03	*****
21	5.04	8.63E-03	*****	1.03E-02	*****
22	5.29	8.83E-03	*****	1.10E-02	*****
23	5.53	9.11E-03	*****	1.19E-02	*****
24	5.78	9.75E-03	*****	1.30E-02	*****
25	6.02	1.05E-02	*****	1.33E-02	*****
26	6.27	1.13E-02	*****	1.38E-02	*****
27	6.52	1.09E-02	*****	1.39E-02	*****
28	6.76	1.08E-02	*****	1.47E-02	*****
29	7.01	1.15E-02	*****	1.57E-02	*****
30	7.25	1.24E-02	*****	1.63E-02	*****
31	7.50	1.31E-02	*****	2.00E-02	39.6
32	7.75	1.30E-02	*****	3.04E-02	*****
33	7.99	1.32E-02	*****	3.10E-02	*****
34	8.24	1.35E-02	*****	3.24E-02	*****
35	8.48	1.41E-02	*****	3.44E-02	*****
36	8.73	1.52E-02	*****	3.47E-02	*****
37	8.98	2.62E-02	*****	3.60E-02	*****
38	9.22	2.64E-02	*****	3.63E-02	*****
39	9.47	2.66E-02	*****	3.58E-02	*****
40	9.71	2.50E-02	*****	3.57E-02	*****
41	9.96	2.64E-02	*****	3.79E-02	*****
42	10.20	2.79E-02	*****	3.90E-02	*****
43	10.45	3.05E-02	*****	4.04E-02	*****
44	10.70	3.25E-02	*****	4.21E-02	*****
45	10.94	3.24E-02	*****	4.31E-02	*****
46	11.19	3.27E-02	*****	4.30E-02	*****
47	11.43	3.20E-02	*****	4.39E-02	*****
48	11.68	3.25E-02	*****	4.59E-02	*****
49	11.93	3.16E-02	*****	4.70E-02	*****
50	12.17	3.05E-02	*****	4.96E-02	*****
51	12.42	2.94E-02	*****	4.96E-02	*****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.80E-02	****	4.96E-02	****
53	12.91	2.87E-02	****	4.92E-02	****
54	13.16	2.36E-02	****	4.78E-02	****
55	13.40	2.84E-02	****	4.72E-02	****
56	13.65	2.92E-02	****	4.62E-02	****
57	13.89	2.79E-02	****	4.73E-02	****
58	14.14	2.32E-02	****	4.61E-02	****
59	14.39	2.93E-02	****	4.59E-02	****
60	14.63	3.00E-02	****	4.62E-02	****
61	14.88	3.09E-02	****	4.52E-02	****
62	15.12	3.15E-02	****	4.54E-02	****
63	15.37	3.12E-02	****	4.54E-02	****
64	15.61	3.08E-02	****	4.44E-02	****
65	15.86	2.99E-02	****	4.45E-02	****
66	16.11	2.83E-02	****	4.55E-02	****
67	16.35	3.09E-02	****	4.60E-02	****
68	16.60	3.26E-02	****	4.81E-02	****
69	16.84	3.43E-02	****	4.74E-02	****
70	17.09	3.72E-02	****	4.76E-02	****
71	17.34	3.74E-02	****	4.90E-02	****
72	17.58	3.85E-02	****	4.98E-02	****
73	17.83	3.92E-02	****	5.17E-02	****
74	18.07	3.95E-02	****	5.50E-02	****
75	18.32	4.53E-02	****	5.80E-02	****
76	18.57	5.13E-02	****	5.78E-02	****
77	18.81	5.16E-02	****	5.78E-02	****
78	19.06	5.25E-02	****	5.70E-02	****
79	19.30	5.18E-02	****	5.65E-02	****
80	19.55	5.13E-02	****	5.61E-02	****
81	19.79	5.26E-02	****	5.74E-02	****
82	20.04	5.61E-02	****	8.78E-02	31.6
83	20.29	5.89E-02	****	6.30E-02	****
84	20.53	6.25E-02	****	6.45E-02	****
85	20.78	6.47E-02	****	6.70E-02	****
86	21.02	6.79E-02	****	6.89E-02	****
87	21.27	7.01E-02	****	7.22E-02	****
88	21.52	7.49E-02	****	7.33E-02	****
89	21.76	7.65E-02	****	7.58E-02	****
90	22.01	7.80E-02	****	7.76E-02	****
91	22.25	8.07E-02	****	8.02E-02	****
92	22.50	8.30E-02	****	8.19E-02	****
93	22.75	8.39E-02	****	8.25E-02	****
94	22.99	8.43E-02	****	8.37E-02	****
95	23.24	8.39E-02	****	8.47E-02	****
96	23.48	8.41E-02	****	8.51E-02	****
97	23.73	8.30E-02	****	8.30E-02	****
98	23.98	8.18E-02	****	8.11E-02	****
99	24.22	8.09E-02	****	7.88E-02	****
100	24.47	8.27E-02	****	7.94E-02	****
101	24.71	8.45E-02	****	8.14E-02	****
102	24.96	8.74E-02	****	8.71E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	9.22E-02	****	9.34E-02	****
104	25.45	9.94E-02	****	9.45E-02	****
105	25.70	1.00E-01	****	9.39E-02	****
106	25.94	1.00E-01	****	9.27E-02	****
107	26.19	9.58E-02	****	8.60E-02	****
108	26.43	9.32E-02	****	8.29E-02	****
109	26.68	8.69E-02	****	8.16E-02	****
110	26.93	8.76E-02	****	8.19E-02	****
111	27.17	8.79E-02	****	8.22E-02	****
112	27.42	8.79E-02	****	8.44E-02	****
113	27.66	8.94E-02	****	8.45E-02	****
114	27.91	8.80E-02	****	8.24E-02	****
115	28.16	8.55E-02	****	8.04E-02	****
116	28.40	1.11E-01	34.4	7.92E-02	****
117	28.65	7.92E-02	****	7.51E-02	****
118	28.89	7.67E-02	****	7.11E-02	****
119	29.14	7.31E-02	****	6.87E-02	****
120	29.39	7.21E-02	****	6.61E-02	****
121	29.63	7.04E-02	****	6.67E-02	****
122	29.88	4.39E-02	****	9.91E-03	****
123	30.12	9.03E-02	****	3.93E-02	****
124	30.37	7.68E-02	****	1.09E-01	****
125	30.61	7.47E-02	****	9.12E-02	****
126	30.86	7.75E-02	****	8.23E-02	****
127	31.11	8.20E-02	****	7.44E-02	****
128	31.35	7.99E-02	****	8.88E-02	****
129	31.60	7.66E-02	****	8.48E-02	****
130	31.84	7.44E-02	****	8.17E-02	****
131	32.09	7.52E-02	****	7.83E-02	****
132	32.34	7.74E-02	****	7.77E-02	****
133	32.58	7.93E-02	****	7.85E-02	****
134	32.83	7.90E-02	****	7.81E-02	****
135	33.07	7.85E-02	****	7.47E-02	****
136	33.32	7.78E-02	****	7.33E-02	****
137	33.57	7.63E-02	****	7.20E-02	****
138	33.81	7.52E-02	****	7.13E-02	****
139	34.06	7.42E-02	****	7.10E-02	****
140	34.30	7.33E-02	****	7.09E-02	****
141	34.55	7.25E-02	****	7.09E-02	****
142	34.79	7.24E-02	****	7.15E-02	****
143	35.04	7.22E-02	****	7.17E-02	****
144	35.29	7.19E-02	****	7.13E-02	****
145	35.53	7.22E-02	****	7.11E-02	****
146	35.78	7.18E-02	****	7.12E-02	****
147	36.02	7.16E-02	****	7.20E-02	****
148	36.27	7.15E-02	****	7.19E-02	****
149	36.52	7.24E-02	****	7.20E-02	****
150	36.76	7.33E-02	****	7.32E-02	****
151	37.01	7.31E-02	****	7.24E-02	****
152	37.25	7.33E-02	****	7.32E-02	****
153	37.50	7.16E-02	****	7.32E-02	****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	7.15E-02	*****	7.24E-02	*****
155	37.99	7.11E-02	*****	7.15E-02	*****
156	38.24	7.16E-02	*****	7.12E-02	*****
157	38.48	7.10E-02	*****	7.15E-02	*****
158	38.73	7.04E-02	*****	7.14E-02	*****
159	38.98	6.93E-02	*****	7.13E-02	*****
160	39.22	6.78E-02	*****	7.04E-02	*****
161	39.47	6.68E-02	*****	7.05E-02	*****
162	39.71	6.64E-02	*****	6.99E-02	*****
163	39.96	6.52E-02	*****	6.86E-02	*****
164	40.20	6.35E-02	*****	6.77E-02	*****
165	40.45	6.17E-02	*****	6.53E-02	*****
166	40.70	5.28E-02	*****	6.29E-02	*****
167	40.94	5.68E-02	*****	6.03E-02	*****
168	41.19	5.50E-02	*****	5.78E-02	*****
169	41.43	5.48E-02	*****	5.63E-02	*****
170	41.68	5.37E-02	*****	5.60E-02	*****
171	41.93	5.32E-02	*****	5.49E-02	*****
172	42.17	5.33E-02	*****	5.52E-02	*****
173	42.42	5.33E-02	*****	5.49E-02	*****
174	42.66	5.40E-02	*****	5.47E-02	*****
175	42.91	5.39E-02	*****	5.53E-02	*****
176	43.16	5.35E-02	*****	5.47E-02	*****
177	43.40	5.38E-02	*****	5.55E-02	*****
178	43.65	5.47E-02	*****	5.51E-02	*****
179	43.89	5.53E-02	*****	5.58E-02	*****
180	44.14	5.61E-02	*****	5.64E-02	*****
181	44.39	5.52E-02	*****	5.65E-02	*****
182	44.63	5.46E-02	*****	5.64E-02	*****
183	44.88	5.38E-02	*****	5.58E-02	*****
184	45.12	5.36E-02	*****	5.52E-02	*****
185	45.37	5.24E-02	*****	5.51E-02	*****
186	45.61	5.28E-02	*****	5.46E-02	*****
187	45.86	5.18E-02	*****	5.48E-02	*****
188	46.11	5.18E-02	*****	5.41E-02	*****
189	46.35	4.99E-02	*****	5.29E-02	*****
190	46.60	4.74E-02	*****	5.14E-02	*****
191	46.84	4.56E-02	*****	4.82E-02	*****
192	47.09	4.32E-02	*****	4.71E-02	*****
193	47.34	4.20E-02	*****	4.48E-02	*****
194	47.58	4.11E-02	*****	4.35E-02	*****
195	47.83	3.97E-02	*****	4.18E-02	*****
196	48.07	3.88E-02	*****	4.10E-02	*****
197	48.32	3.81E-02	*****	4.02E-02	*****
198	48.57	3.75E-02	*****	3.90E-02	*****
199	48.81	3.74E-02	*****	3.81E-02	*****
200	49.06	3.66E-02	*****	3.81E-02	*****
201	49.30	3.67E-02	*****	3.73E-02	*****
202	49.55	3.61E-02	*****	3.79E-02	*****
203	49.79	3.61E-02	*****	3.68E-02	*****
204	50.04	3.59E-02	*****	3.66E-02	*****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	3.54E-02	*****	3.67E-02	*****
206	50.53	3.52E-02	*****	3.57E-02	*****
207	50.78	3.44E-02	*****	3.46E-02	*****
208	51.02	3.36E-02	*****	3.38E-02	*****
209	51.27	3.28E-02	*****	3.22E-02	*****
210	51.52	3.14E-02	*****	3.11E-02	*****
211	51.76	3.10E-02	*****	3.09E-02	*****
212	52.01	3.07E-02	*****	3.08E-02	*****
213	52.25	3.02E-02	*****	3.00E-02	*****
214	52.50	2.94E-02	*****	2.98E-02	*****
215	52.75	2.90E-02	*****	2.91E-02	*****
216	52.99	2.55E-02	*****	2.67E-02	*****
217	53.24	2.82E-02	*****	2.80E-02	*****
218	53.48	2.79E-02	*****	2.78E-02	*****
219	53.73	2.84E-02	*****	2.76E-02	*****
220	53.98	3.43E-02	33.5	2.75E-02	*****
221	54.22	2.81E-02	*****	2.73E-02	*****
222	54.47	2.84E-02	*****	2.70E-02	*****
223	54.71	2.78E-02	*****	2.70E-02	*****
224	54.96	2.76E-02	*****	2.76E-02	*****
225	55.20	2.74E-02	*****	2.71E-02	*****
226	55.45	2.78E-02	*****	2.75E-02	*****
227	55.70	2.75E-02	*****	2.72E-02	*****
228	55.94	2.79E-02	*****	2.69E-02	*****
229	56.19	2.77E-02	*****	2.75E-02	*****
230	56.43	2.85E-02	*****	2.71E-02	*****
231	56.68	2.80E-02	*****	2.60E-02	*****
232	56.93	2.86E-02	*****	2.69E-02	*****
233	57.17	2.81E-02	*****	2.58E-02	*****
234	57.42	2.75E-02	*****	2.50E-02	*****
235	57.66	2.84E-02	*****	2.56E-02	*****
236	57.91	2.83E-02	*****	2.65E-02	*****
237	58.16	3.03E-02	*****	2.73E-02	*****
238	58.40	3.14E-02	*****	2.76E-02	*****
239	58.65	3.23E-02	*****	2.85E-02	*****
240	58.89	3.40E-02	*****	2.37E-02	*****
241	59.14	4.44E-02	*****	2.64E-02	*****
242	59.39	4.09E-02	*****	4.52E-02	*****
243	59.63	3.73E-02	*****	3.80E-02	*****
244	59.88	3.18E-02	*****	3.51E-02	*****
245	60.12	3.28E-02	*****	3.05E-02	*****
246	60.37	3.13E-02	*****	2.88E-02	*****
247	60.61	3.02E-02	*****	2.80E-02	*****
248	60.86	2.73E-02	*****	2.75E-02	*****
249	61.11	2.60E-02	*****	1.33E-02	*****
250	61.35	1.25E-02	*****	1.30E-02	*****
251	61.60	1.20E-02	*****	1.27E-02	*****
252	61.84	1.13E-02	*****	1.24E-02	*****
253	62.09	1.09E-02	*****	1.25E-02	*****
254	62.34	1.07E-02	*****	1.25E-02	*****
255	62.58	1.02E-02	*****	1.24E-02	*****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.01E-02	*****	1.21E-02	*****
257	63.07	9.93E-03	*****	1.17E-02	*****
258	63.32	9.95E-03	*****	1.16E-02	*****
259	63.57	9.75E-03	*****	1.13E-02	*****
260	63.81	9.54E-03	*****	1.11E-02	*****
261	64.06	9.52E-03	*****	1.09E-02	*****
262	64.30	9.39E-03	*****	1.03E-02	*****
263	64.55	9.51E-03	*****	1.06E-02	*****
264	64.79	9.59E-03	*****	1.05E-02	*****
265	65.04	9.62E-03	*****	1.04E-02	*****
266	65.29	9.51E-03	*****	1.05E-02	*****
267	65.53	9.61E-03	*****	1.03E-02	*****
268	65.78	9.53E-03	*****	1.10E-02	*****
269	66.02	9.56E-03	*****	1.11E-02	*****
270	66.27	9.44E-03	*****	1.09E-02	*****
271	66.52	9.49E-03	*****	1.06E-02	*****
272	66.76	9.53E-03	*****	1.07E-02	*****
273	67.01	9.41E-03	*****	1.05E-02	*****
274	67.25	9.28E-03	*****	1.02E-02	*****
275	67.50	8.82E-03	*****	9.76E-03	*****
276	67.75	8.72E-03	*****	9.21E-03	*****
277	67.99	9.10E-03	*****	8.52E-03	*****
278	68.24	9.54E-03	*****	8.41E-03	*****
279	68.48	9.33E-03	*****	9.02E-03	*****
280	68.73	8.47E-03	*****	9.27E-03	*****
281	68.98	8.07E-03	*****	8.42E-03	*****
282	69.22	7.77E-03	*****	7.79E-03	*****
283	69.47	7.72E-03	*****	7.86E-03	*****
284	69.71	7.84E-03	*****	7.60E-03	*****
285	69.96	7.38E-03	*****	7.45E-03	*****
286	70.20	7.66E-03	*****	7.24E-03	*****
287	70.45	7.35E-03	*****	6.91E-03	*****
288	70.70	7.84E-03	*****	7.06E-03	*****
289	70.94	7.35E-03	*****	7.28E-03	*****
290	71.19	7.32E-03	*****	6.66E-03	*****
291	71.43	7.25E-03	*****	6.42E-03	*****
292	71.68	7.06E-03	*****	6.35E-03	*****
293	71.93	6.99E-03	*****	6.18E-03	*****
294	72.17	6.83E-03	*****	6.01E-03	*****
295	72.42	6.60E-03	*****	5.79E-03	*****
296	72.66	6.48E-03	*****	5.49E-03	*****
297	72.91	6.11E-03	*****	5.33E-03	*****
298	73.16	5.72E-03	*****	5.12E-03	*****
299	73.40	5.29E-03	*****	4.73E-03	*****
300	73.65	4.37E-03	*****	4.23E-03	*****
301	73.89	3.77E-03	*****	3.89E-03	*****
302	74.14	3.21E-03	*****	3.47E-03	*****
303	74.38	2.72E-03	*****	2.96E-03	*****
304	74.63	2.35E-03	*****	2.67E-03	*****
305	74.88	2.11E-03	*****	2.46E-03	*****
306	75.12	1.95E-03	*****	2.29E-03	*****

Table A-4 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.84E-03	*****	2.16E-03	*****
308	75.61	1.70E-03	*****	2.07E-03	*****
309	75.86	1.62E-03	*****	1.97E-03	*****
310	76.11	1.57E-03	*****	1.80E-03	*****
311	76.35	1.56E-03	*****	1.86E-03	*****
312	76.60	1.57E-03	*****	1.77E-03	*****
313	76.84	1.62E-03	*****	1.75E-03	*****
314	77.09	1.70E-03	*****	1.78E-03	*****
315	77.34	1.70E-03	*****	1.83E-03	*****
316	77.58	1.66E-03	*****	1.84E-03	*****
317	77.83	1.65E-03	*****	1.79E-03	*****
318	78.07	1.57E-03	*****	1.76E-03	*****
319	78.32	1.49E-03	*****	1.71E-03	*****
320	78.57	1.39E-03	*****	1.64E-03	*****
321	78.81	1.22E-03	*****	1.06E-03	*****
322	79.06	1.27E-03	*****	9.76E-04	*****
323	79.30	7.68E-04	*****	9.56E-04	*****
324	79.55	7.42E-04	*****	9.53E-04	*****
325	79.79	7.45E-04	*****	9.27E-04	*****
326	80.04	8.41E-04	*****	9.19E-04	*****
327	80.29	9.73E-04	*****	1.16E-03	*****
328	80.53	1.01E-03	*****	1.48E-03	*****
329	80.78	1.04E-03	*****	2.24E-03	*****
330	81.02	1.07E-03	*****	2.27E-03	*****
331	81.27	1.16E-03	*****	2.41E-03	*****
332	81.52	1.19E-03	*****	2.67E-03	*****
333	81.76	1.19E-03	*****	2.70E-03	*****
334	82.01	1.21E-03	*****	2.66E-03	*****
335	82.25	1.10E-03	*****	2.67E-03	*****
336	82.50	9.74E-04	*****	2.52E-03	*****
337	82.75	7.89E-04	*****	2.21E-03	*****
338	82.99	7.13E-04	*****	1.78E-03	*****
339	83.24	7.30E-04	*****	1.61E-03	*****
340	83.48	6.42E-04	*****	1.80E-03	*****
341	83.73	5.05E-04	*****	1.68E-03	*****
342	83.97	4.39E-04	*****	7.20E-04	*****
343	84.22	3.82E-04	*****	6.03E-04	*****
344	84.47	2.98E-04	*****	5.09E-04	*****
345	84.71	2.37E-04	*****	3.90E-04	*****
346	84.96	2.03E-04	*****	2.84E-04	*****
347	85.20	1.91E-04	*****	2.39E-04	*****
348	85.45	1.73E-04	*****	2.13E-04	*****
349	85.70	1.66E-04	*****	1.92E-04	*****
350	85.94	1.61E-04	*****	1.74E-04	*****
351	86.19	1.45E-04	*****	1.72E-04	*****
352	86.43	1.38E-04	*****	1.56E-04	*****
353	86.68	1.48E-04	*****	1.46E-04	*****
354	86.93	1.45E-04	*****	1.46E-04	*****
355	87.17	2.86E-04	23.4	1.30E-04	*****
356	87.42	1.57E-04	*****	1.33E-04	*****
357	87.66	1.75E-04	*****	1.33E-04	*****
358	87.91	1.61E-04	*****	1.54E-04	*****

Table A-5. Axial distribution of ^{110m}Ag in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	7.32E-04	25.8	4.22E-04	****
2	1.63	3.54E-04	****	3.97E-04	****
3	1.39	3.20E-04	****	4.06E-04	****
4	1.14	3.16E-04	****	4.31E-04	****
5	0.89	3.12E-04	****	4.79E-04	****
6	0.65	3.76E-04	****	7.27E-04	****
7	0.40	8.03E-04	****	9.45E-04	****
8	0.16	1.19E-03	****	3.44E-04	****
9	0.09	8.00E-04	****	3.33E-04	****
10	0.34	5.97E-04	****	2.56E-04	****
11	0.58	7.13E-04	38.6	2.62E-04	****
12	0.83	6.06E-04	****	2.42E-04	****
13	1.07	5.87E-04	****	2.35E-04	****
14	1.32	6.12E-04	****	2.34E-04	****
15	1.57	5.83E-04	****	2.40E-04	****
16	1.81	6.07E-04	****	2.51E-04	****
17	2.06	5.90E-04	****	2.58E-04	****
18	2.30	6.01E-04	****	3.06E-04	****
19	2.55	6.10E-04	****	6.34E-04	29.0
20	2.80	6.85E-04	****	4.82E-04	36.6
21	3.04	6.40E-04	****	3.51E-04	****
22	3.29	6.17E-04	****	3.42E-04	****
23	3.53	6.31E-04	****	3.47E-04	****
24	3.78	7.41E-04	38.2	3.61E-04	****
25	4.02	6.15E-04	****	4.01E-04	****
26	4.27	6.65E-04	****	4.32E-04	****
27	4.52	6.56E-04	****	4.87E-04	****
28	4.76	6.60E-04	****	5.87E-04	****
29	5.01	7.32E-04	****	8.16E-04	****
30	5.25	8.58E-04	****	1.14E-03	****
31	5.50	1.11E-03	****	3.43E-03	19.6
32	5.75	7.86E-03	10.5	9.53E-03	9.0
33	5.99	1.15E-02	7.7	1.08E-03	****
34	6.24	1.09E-03	****	8.81E-04	****
35	6.48	7.86E-04	****	7.98E-04	****
36	6.73	7.84E-04	****	8.66E-04	****
37	6.98	7.68E-04	****	9.21E-04	****
38	7.22	7.62E-04	****	9.16E-04	****
39	7.47	8.11E-04	****	9.69E-04	****
40	7.71	8.17E-04	****	1.01E-03	****
41	7.96	8.44E-04	****	1.10E-03	****
42	8.20	9.21E-04	****	1.37E-03	****
43	8.45	1.08E-03	****	1.73E-03	****
44	8.70	2.16E-03	38.4	5.54E-03	13.6
45	8.94	1.03E-02	8.2	2.35E-02	****
46	9.19	1.57E-03	****	1.96E-03	****
47	9.43	1.26E-03	****	1.75E-03	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	1.27E-03	****	1.79E-03	****
49	9.93	1.26E-03	****	2.51E-03	34.5
50	10.17	1.22E-03	****	1.84E-03	****
51	10.42	1.31E-03	****	2.05E-03	****
52	10.66	1.30E-03	****	1.97E-03	****
53	10.91	1.31E-03	****	2.17E-03	****
54	11.16	1.49E-03	****	2.71E-03	38.5
55	11.40	1.66E-03	****	2.66E-03	****
56	11.65	1.89E-03	****	3.49E-03	****
57	11.89	2.17E-03	36.7	3.22E-03	****
58	12.14	2.45E-03	****	3.00E-03	****
59	12.39	2.69E-03	****	3.86E-03	38.7
60	12.63	3.20E-03	****	3.42E-03	****
61	12.88	6.03E-03	27.1	2.92E-02	****
62	13.12	5.77E-03	****	5.64E-03	****
63	13.37	6.08E-03	****	5.83E-03	****
64	13.61	1.02E-02	25.9	5.99E-03	****
65	13.86	6.08E-03	****	6.38E-03	****
66	14.11	6.33E-03	****	9.43E-03	32.9
67	14.35	6.91E-03	****	1.29E-02	24.5
68	14.60	1.98E-02	15.2	2.91E-02	12.5
69	14.84	1.26E-01	3.7	1.79E-01	3.0
70	15.09	2.43E-02	13.0	2.90E-02	11.3
71	15.34	5.92E-03	****	5.94E-03	****
72	15.58	5.34E-03	****	8.70E-03	29.0
73	15.83	5.42E-03	****	5.59E-03	****
74	16.07	5.38E-03	****	5.94E-03	****
75	16.32	5.64E-03	****	6.52E-03	****
76	16.57	5.95E-03	****	6.37E-03	****
77	16.81	6.59E-03	****	1.41E-02	23.4
78	17.06	1.08E-02	28.8	8.08E-03	****
79	17.30	7.02E-03	****	9.23E-03	****
80	17.55	1.32E-02	29.7	1.03E-02	****
81	17.79	9.85E-03	****	1.25E-02	****
82	18.04	1.18E-02	****	1.41E-02	****
83	18.29	2.33E-02	24.2	1.34E-02	****
84	18.53	1.24E-02	****	1.37E-02	****
85	18.78	1.28E-02	****	1.48E-02	****
86	19.02	1.36E-02	****	2.87E-02	25.0
87	19.27	2.12E-02	32.4	3.15E-02	24.0
88	19.52	2.43E-02	30.7	4.20E-02	19.7
89	19.76	2.36E-02	31.7	1.89E-02	****
90	20.01	3.15E-02	25.6	4.64E-02	19.9
91	20.25	3.35E-02	25.5	4.83E-02	21.2
92	20.50	3.02E-02	24.1	2.25E-02	34.5
93	20.75	6.62E-02	13.5	4.67E-02	18.4
94	20.99	8.05E-02	12.7	1.05E-01	12.7

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	2.39E-02	****	2.39E-02	****
96	21.48	2.70E-02	37.4	3.18E-02	27.8
97	21.73	2.11E-02	****	2.21E-02	39.6
98	21.98	2.29E-02	****	2.06E-02	****
99	22.22	2.36E-02	****	2.19E-02	****
100	22.47	2.47E-02	****	3.73E-02	27.6
101	22.71	5.73E-02	21.3	2.39E-02	****
102	22.96	2.62E-02	****	2.33E-02	****
103	23.20	2.71E-02	****	2.31E-02	****
104	23.45	3.25E-02	30.7	2.42E-02	****
105	23.70	4.86E-02	29.4	4.11E-02	28.8
106	23.94	5.80E-02	29.4	3.90E-02	38.1
107	24.19	3.58E-02	****	5.96E-02	25.7
108	24.43	3.06E-02	****	4.11E-02	32.8
109	24.68	3.01E-02	****	2.61E-02	****
110	24.93	3.02E-02	****	2.61E-02	33.0
111	25.17	3.01E-02	****	5.58E-02	21.9
112	25.42	3.76E-02	38.4	2.71E-02	****
113	25.66	3.22E-02	****	2.66E-02	****
114	25.91	4.35E-02	35.9	5.43E-02	24.7
115	26.16	4.84E-02	31.6	2.52E-02	****
116	26.40	5.62E-02	27.0	6.08E-02	19.0
117	26.65	3.28E-02	****	3.96E-02	30.2
118	26.89	3.17E-02	****	8.17E-02	14.4
119	27.14	7.36E-02	21.4	4.81E-02	27.1
120	27.39	5.52E-02	26.9	3.83E-02	39.0
121	27.63	3.15E-02	34.7	3.19E-02	25.9
122	27.88	5.74E-02	26.5	6.76E-02	16.7
123	28.12	5.73E-02	26.5	5.64E-02	15.8
124	28.37	4.61E-02	34.4	6.57E-02	16.9
125	28.61	3.26E-02	****	4.97E-02	20.4
126	28.86	3.69E-02	29.6	4.44E-02	23.6
127	29.11	6.75E-02	23.7	4.11E-02	27.2
128	29.35	3.84E-02	38.3	3.92E-02	20.7
129	29.60	9.14E-02	16.9	6.55E-02	14.6
130	29.84	5.34E-02	24.1	8.18E-02	12.9
131	30.09	2.86E-02	****	1.46E-02	****
132	30.34	4.13E-02	****	3.51E-02	****
133	30.58	3.57E-02	****	4.13E-02	****
134	30.83	4.25E-02	38.0	5.26E-02	37.2
135	31.07	3.85E-02	****	4.12E-02	****
136	31.32	3.96E-02	****	7.16E-02	27.4
137	31.57	4.11E-02	****	4.17E-02	****
138	31.81	4.62E-02	****	4.07E-02	****
139	32.06	4.49E-02	****	4.36E-02	****
140	32.30	5.89E-02	37.1	5.74E-02	33.5
141	32.55	4.81E-02	****	3.77E-02	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	4.58E-02	****	4.14E-02	****
143	33.04	4.68E-02	****	4.23E-02	****
144	33.29	5.30E-02	****	4.28E-02	****
145	33.53	5.10E-02	****	4.18E-02	****
146	33.78	6.57E-02	36.2	4.19E-02	****
147	34.02	5.15E-02	****	4.03E-02	****
148	34.27	4.94E-02	****	4.13E-02	****
149	34.52	4.59E-02	****	3.93E-02	****
150	34.76	4.42E-02	****	3.83E-02	****
151	35.01	4.53E-02	****	3.67E-02	****
152	35.25	4.37E-02	****	3.64E-02	****
153	35.50	4.10E-02	****	5.63E-02	30.3
154	35.75	4.26E-02	****	3.82E-02	****
155	35.99	4.03E-02	****	3.74E-02	****
156	36.24	4.62E-02	****	4.21E-02	****
157	36.48	4.94E-02	****	4.51E-02	****
158	36.73	4.54E-02	****	4.29E-02	****
159	36.98	4.63E-02	****	4.42E-02	****
160	37.22	4.21E-02	****	4.15E-02	****
161	37.47	4.32E-02	****	3.97E-02	****
162	37.71	4.28E-02	****	4.17E-02	****
163	37.96	3.95E-02	****	4.01E-02	****
164	38.20	3.91E-02	****	3.63E-02	****
165	38.45	3.91E-02	****	3.84E-02	****
166	38.70	3.88E-02	****	3.80E-02	****
167	38.94	3.78E-02	****	3.61E-02	****
168	39.19	3.83E-02	****	3.63E-02	****
169	39.43	4.43E-02	****	4.04E-02	****
170	39.68	5.15E-02	****	4.27E-02	****
171	39.93	8.25E-02	****	3.84E-02	****
172	40.17	4.37E-02	****	3.92E-02	****
173	40.42	4.53E-02	****	3.96E-02	****
174	40.66	4.46E-02	****	3.79E-02	****
175	40.91	4.30E-02	****	4.10E-02	****
176	41.16	4.19E-02	****	3.65E-02	****
177	41.40	4.23E-02	****	3.57E-02	****
178	41.65	4.17E-02	****	3.64E-02	****
179	41.89	4.06E-02	****	3.63E-02	****
180	42.14	4.02E-02	****	3.94E-02	****
181	42.39	4.44E-02	****	4.56E-02	****
182	42.63	5.06E-02	****	4.42E-02	****
183	42.88	5.29E-02	****	4.50E-02	****
184	43.12	5.04E-02	****	4.38E-02	****
185	43.37	5.00E-02	****	4.27E-02	****
186	43.61	5.05E-02	****	4.21E-02	****
187	43.86	5.03E-02	****	4.25E-02	****
188	44.11	4.93E-02	****	4.40E-02	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	5.03E-02	****	4.23E-02	****
190	44.60	4.76E-02	****	5.59E-02	33.2
191	44.84	4.80E-02	****	3.90E-02	****
192	45.09	4.59E-02	****	3.91E-02	****
193	45.34	4.83E-02	****	4.81E-02	****
194	45.58	5.63E-02	****	4.76E-02	****
195	45.83	5.53E-02	****	4.27E-02	****
196	46.07	5.63E-02	****	4.21E-02	****
197	46.32	5.33E-02	****	4.39E-02	****
198	46.57	5.36E-02	****	4.20E-02	****
199	46.81	5.47E-02	****	4.23E-02	****
200	47.06	5.13E-02	****	4.29E-02	****
201	47.30	5.28E-02	****	4.23E-02	****
202	47.55	4.83E-02	****	3.89E-02	****
203	47.79	4.65E-02	****	3.96E-02	****
204	48.04	4.39E-02	****	3.70E-02	****
205	48.29	4.17E-02	****	3.98E-02	****
206	48.53	4.90E-02	****	4.64E-02	****
207	48.78	5.38E-02	****	4.25E-02	****
208	49.02	5.00E-02	****	4.05E-02	****
209	49.27	4.98E-02	****	4.17E-02	****
210	49.52	4.79E-02	****	3.81E-02	****
211	49.76	4.82E-02	****	3.52E-02	****
212	50.01	4.90E-02	****	3.59E-02	****
213	50.25	4.50E-02	****	3.30E-02	****
214	50.50	4.33E-02	****	3.26E-02	****
215	50.75	4.46E-02	****	3.06E-02	****
216	50.99	3.82E-02	****	2.90E-02	****
217	51.24	3.70E-02	****	3.13E-02	****
218	51.48	4.04E-02	****	3.43E-02	****
219	51.73	4.43E-02	****	3.20E-02	****
220	51.98	4.11E-02	****	2.90E-02	****
221	52.22	3.83E-02	****	2.83E-02	****
222	52.47	3.83E-02	****	2.86E-02	****
223	52.71	3.57E-02	****	2.91E-02	****
224	52.96	3.42E-02	****	2.87E-02	****
225	53.20	3.39E-02	****	2.75E-02	****
226	53.45	4.33E-02	35.8	2.75E-02	****
227	53.70	3.08E-02	****	2.75E-02	****
228	53.94	3.04E-02	****	2.69E-02	****
229	54.19	2.90E-02	****	2.69E-02	****
230	54.43	2.84E-02	****	2.74E-02	****
231	54.68	3.02E-02	****	3.08E-02	****
232	54.93	3.38E-02	****	3.15E-02	****
233	55.17	3.53E-02	****	3.10E-02	****
234	55.42	3.37E-02	****	2.97E-02	****
235	55.66	3.36E-02	****	3.09E-02	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	3.50E-02	****	2.92E-02	****
237	56.16	3.30E-02	****	3.12E-02	****
238	56.40	3.30E-02	****	2.98E-02	****
239	56.65	3.19E-02	****	2.96E-02	****
240	56.89	3.01E-02	****	2.80E-02	****
241	57.14	2.81E-02	****	2.78E-02	****
242	57.39	2.77E-02	****	3.24E-02	****
243	57.63	3.00E-02	****	3.65E-02	****
244	57.88	3.12E-02	****	3.57E-02	****
245	58.12	3.29E-02	****	3.64E-02	****
246	58.37	3.57E-02	****	3.69E-02	****
247	58.61	3.62E-02	****	3.65E-02	****
248	58.86	3.72E-02	****	3.66E-02	****
249	59.11	3.79E-02	****	3.48E-02	****
250	59.35	3.61E-02	****	3.42E-02	****
251	59.60	3.41E-02	****	3.36E-02	****
252	59.84	3.40E-02	****	3.07E-02	****
253	60.09	7.82E-03	****	9.81E-03	****
254	60.34	2.39E-02	****	2.71E-02	****
255	60.58	2.76E-02	****	3.16E-02	****
256	60.83	2.90E-02	****	3.28E-02	****
257	61.07	3.15E-02	****	3.32E-02	****
258	61.32	3.10E-02	****	2.93E-02	****
259	61.57	2.87E-02	****	2.73E-02	****
260	61.81	2.80E-02	****	2.60E-02	****
261	62.06	2.60E-02	****	3.01E-03	****
262	62.30	2.17E-02	****	2.89E-03	****
263	62.55	1.95E-02	****	2.55E-03	****
264	62.79	1.91E-02	****	2.65E-03	****
265	63.04	1.87E-02	****	2.88E-03	****
266	63.29	1.82E-02	****	3.15E-03	****
267	63.53	1.74E-02	****	3.57E-03	****
268	63.78	1.72E-02	****	3.68E-03	****
269	64.02	1.59E-02	****	3.35E-03	****
270	64.27	1.57E-02	****	3.29E-03	****
271	64.52	1.51E-02	****	2.97E-03	****
272	64.76	1.35E-02	****	2.75E-03	****
273	65.01	1.35E-02	****	2.49E-03	****
274	65.25	1.30E-02	****	2.18E-03	****
275	65.50	1.30E-02	****	2.05E-03	****
276	65.75	1.26E-02	****	1.94E-03	****
277	65.99	1.23E-02	****	1.96E-03	****
278	66.24	1.29E-02	****	2.00E-03	****
279	66.48	1.42E-02	****	2.11E-03	****
280	66.73	1.50E-02	****	2.26E-03	****
281	66.98	1.47E-02	****	2.22E-03	****
282	67.22	1.29E-02	****	2.19E-03	****

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	1.30E-02	****	2.12E-03	****
284	67.71	1.25E-02	****	1.98E-03	****
285	67.96	1.15E-02	****	1.92E-03	****
286	68.20	1.05E-02	****	1.89E-03	****
287	68.45	1.00E-02	****	1.73E-03	****
288	68.70	1.02E-02	****	1.62E-03	****
289	68.94	1.06E-02	****	1.68E-03	****
290	69.19	1.18E-02	38.2	1.70E-03	****
291	69.43	1.03E-02	****	1.60E-03	****
292	69.68	1.18E-02	****	1.61E-03	****
293	69.93	1.05E-02	****	1.64E-03	****
294	70.17	1.00E-02	****	1.49E-03	****
295	70.42	9.26E-03	****	1.42E-03	****
296	70.66	8.83E-03	****	1.38E-03	****
297	70.91	8.53E-03	****	1.76E-03	36.9
298	71.16	8.05E-03	****	1.36E-03	****
299	71.40	7.83E-03	****	1.25E-03	****
300	71.65	7.24E-03	****	1.82E-03	30.3
301	71.89	7.27E-03	****	1.27E-03	****
302	72.14	7.49E-03	****	1.28E-03	****
303	72.38	1.09E-02	****	1.31E-03	****
304	72.63	1.69E-02	****	1.39E-03	****
305	72.88	8.66E-03	****	1.41E-03	****
306	73.12	1.10E-02	****	1.36E-03	****
307	73.37	1.17E-02	****	1.25E-03	****
308	73.61	1.01E-02	****	1.20E-03	****
309	73.86	1.23E-02	37.7	1.15E-03	****
310	74.11	9.22E-03	****	1.05E-03	****
311	74.35	8.59E-03	****	1.01E-03	****
312	74.60	8.14E-03	****	2.51E-04	****
313	74.84	7.52E-03	****	2.70E-04	****
314	75.09	7.21E-03	****	2.38E-04	****
315	75.34	4.88E-03	****	2.22E-04	****
316	75.58	4.63E-03	****	1.98E-04	****
317	75.83	5.03E-03	****	1.17E-03	****
318	76.07	5.60E-03	36.0	9.63E-04	****
319	76.32	7.60E-03	20.4	8.78E-04	****
320	76.57	6.66E-03	21.0	8.62E-04	****
321	76.81	6.31E-03	19.4	7.66E-04	****
322	77.06	4.93E-03	23.6	1.12E-03	27.9
323	77.30	3.75E-03	22.5	9.67E-04	31.6
324	77.55	3.81E-03	22.5	8.44E-04	36.1
325	77.79	4.93E-03	20.7	6.15E-04	****
326	78.04	2.58E-03	30.5	5.40E-04	****
327	78.29	4.33E-03	22.7	1.01E-03	23.6
328	78.53	2.70E-03	29.1	9.50E-04	28.5
329	78.78	4.43E-03	26.5	7.40E-04	39.4

Table A-5 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	3.79E-03	38.6	6.10E-04	38.0
331	79.27	4.93E-03	25.8	6.47E-04	****
332	79.52	3.85E-03	29.2	9.10E-04	30.4
333	79.76	4.85E-03	23.4	1.54E-04	32.2
334	80.01	4.80E-03	19.6	2.38E-04	24.9
335	80.25	4.58E-03	19.2	1.77E-04	31.2
336	80.50	2.66E-03	24.3	1.31E-04	32.2
337	80.75	2.71E-03	22.9	1.41E-04	30.2
338	80.99	2.53E-03	29.0	1.51E-04	26.5
339	81.24	2.77E-03	23.0	1.21E-04	29.0
340	81.48	2.05E-03	30.9	1.01E-04	30.0
341	81.73	2.29E-03	29.5	5.12E-04	33.7
342	81.97	1.71E-03	30.4	7.09E-04	26.4
343	82.22	3.74E-03	18.6	4.92E-04	35.3
344	82.47	3.60E-03	18.5	4.53E-04	36.5
345	82.71	2.91E-03	20.6	5.14E-04	25.1
346	82.96	2.80E-03	17.3	6.02E-04	20.1
347	83.20	3.04E-03	15.2	6.52E-04	22.1
348	83.45	2.61E-03	16.2	3.72E-04	36.4
349	83.70	2.66E-03	16.4	2.77E-04	****
350	83.94	1.44E-03	29.3	2.62E-04	****
351	84.19	2.44E-03	13.6	1.60E-03	19.9
352	84.43	2.20E-03	14.2	1.49E-03	14.5
353	84.68	2.99E-03	10.3	1.32E-03	16.4
354	84.93	2.58E-03	10.0	5.18E-04	12.0
355	85.17	3.04E-03	9.1	4.72E-04	11.3
356	85.42	3.04E-03	7.5	4.91E-04	10.0
357	85.66	3.31E-03	6.3	3.58E-04	11.0
358	85.91	3.01E-03	6.2	3.68E-04	10.1
359	86.16	3.05E-03	5.6	3.52E-04	10.1
360	86.40	2.86E-03	5.6	3.59E-04	8.7
361	86.65	3.01E-03	5.1	4.22E-04	7.8
362	86.89	2.99E-03	5.0	3.59E-04	8.3
363	87.14	2.84E-03	5.1	2.95E-04	10.1
364	87.38	2.77E-03	4.7	4.86E-04	6.4
365	87.63	2.30E-03	5.2	6.75E-04	5.2
366	87.88	2.06E-03	5.5	7.72E-04	5.1
367	88.12	2.73E-03	4.8	8.46E-04	5.1
368	88.37	3.68E-03	3.9	7.97E-04	5.5
369	88.61	3.92E-03	4.0	7.12E-04	6.1
370	88.86	3.73E-03	4.4	7.61E-04	6.2
371	89.11	3.38E-03	5.4	7.71E-04	6.5
372	89.35	2.96E-03	6.1	5.23E-04	9.9
373	89.60	2.62E-03	7.3	4.34E-04	11.2
374	89.84	2.64E-03	7.7	3.00E-04	15.6

Table A-6. Axial distribution of ^{110m}Ag in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.95E-04	****	2.45E-03	16.9
2	0.37	2.30E-03	15.6	3.13E-03	7.2
3	0.61	1.52E-03	10.3	3.05E-03	6.6
4	0.86	2.25E-03	7.3	2.73E-03	7.2
5	1.11	3.34E-03	5.5	3.10E-03	7.6
6	1.35	4.98E-03	4.4	4.57E-03	6.0
7	1.60	6.44E-03	4.3	5.06E-03	6.2
8	1.84	7.42E-03	4.2	5.46E-03	6.9
9	2.09	9.89E-03	3.7	6.77E-03	5.5
10	2.34	1.06E-02	3.7	8.39E-03	5.3
11	2.55	1.14E-02	3.7	8.72E-03	4.9
12	2.83	1.22E-02	3.6	8.03E-03	5.6
13	3.07	1.51E-02	3.1	1.01E-02	4.9
14	3.32	1.37E-02	3.5	9.35E-03	5.4
15	3.57	1.53E-02	3.4	1.16E-02	4.5
16	3.81	1.58E-02	3.3	1.16E-02	4.8
17	4.06	1.71E-02	3.3	1.10E-02	5.2
18	4.30	1.68E-02	3.6	1.07E-02	5.7
19	4.55	1.75E-02	3.6	1.04E-02	6.2
20	4.80	1.76E-02	3.7	9.96E-03	7.4
21	5.04	1.73E-02	4.0	9.49E-03	7.6
22	5.29	1.52E-02	4.5	1.05E-02	7.3
23	5.53	1.44E-02	4.8	7.01E-03	12.6
24	5.78	1.18E-02	6.2	6.73E-03	12.7
25	6.02	1.19E-02	6.3	8.01E-03	13.3
26	6.27	1.05E-02	7.8	6.67E-03	16.1
27	6.52	9.65E-03	8.3	6.74E-03	13.3
28	6.76	1.22E-02	6.4	2.33E-03	37.5
29	7.01	9.40E-03	8.9	8.07E-03	15.2
30	7.25	9.05E-03	9.9	7.21E-03	17.9
31	7.50	7.09E-03	12.2	6.38E-03	21.0
32	7.75	3.77E-03	21.7	7.83E-03	21.7
33	7.99	6.57E-03	13.5	7.11E-03	24.3
34	8.24	6.91E-03	13.1	5.35E-03	30.3
35	8.48	5.71E-03	16.8	7.62E-03	23.3
36	8.73	3.78E-03	24.9	3.83E-03	37.5
37	8.98	7.24E-03	19.0	8.16E-03	19.3
38	9.22	7.91E-03	17.3	5.96E-03	31.3
39	9.47	6.17E-03	20.8	4.99E-03	37.7
40	9.71	6.55E-03	23.9	7.02E-03	26.3
41	9.96	8.90E-03	17.1	5.71E-03	32.2
42	10.20	4.28E-03	38.7	5.32E-03	39.4
43	10.45	8.22E-03	21.3	5.40E-03	39.0
44	10.70	4.38E-03	28.2	4.91E-03	****
45	10.94	5.93E-03	24.6	5.03E-03	****
46	11.19	4.63E-03	37.6	4.86E-03	****
47	11.43	4.27E-03	****	5.20E-03	****
48	11.68	4.05E-03	****	5.36E-03	****
49	11.93	3.84E-03	36.4	5.64E-03	****
50	12.17	4.02E-03	39.6	7.86E-03	36.9
51	12.42	4.65E-03	28.4	5.85E-03	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	5.62E-03	23.7	6.32E-03	*****
53	12.91	3.65E-03	*****	6.01E-03	*****
54	13.16	3.57E-03	*****	7.23E-03	37.3
55	13.40	5.97E-03	25.9	5.96E-03	*****
56	13.65	3.40E-03	*****	5.70E-03	*****
57	13.89	5.64E-03	26.3	8.91E-03	29.5
58	14.14	3.54E-03	*****	5.35E-03	*****
59	14.39	3.65E-03	*****	5.63E-03	*****
60	14.63	3.81E-03	*****	5.50E-03	*****
61	14.88	3.82E-03	*****	5.42E-03	*****
62	15.12	3.73E-03	*****	5.31E-03	*****
63	15.37	3.73E-03	*****	5.48E-03	*****
64	15.61	4.97E-03	32.5	5.01E-03	*****
65	15.86	3.57E-03	*****	5.51E-03	*****
66	16.11	3.55E-03	*****	5.48E-03	*****
67	16.35	3.78E-03	*****	5.49E-03	*****
68	16.60	3.98E-03	*****	5.69E-03	*****
69	16.84	5.29E-03	34.9	5.67E-03	*****
70	17.09	4.38E-03	*****	5.77E-03	*****
71	17.34	4.26E-03	*****	6.06E-03	*****
72	17.58	4.44E-03	*****	6.09E-03	*****
73	17.83	4.50E-03	*****	6.34E-03	*****
74	18.07	4.54E-03	*****	7.09E-03	*****
75	18.32	6.62E-03	36.3	7.03E-03	*****
76	18.57	6.46E-03	*****	7.26E-03	*****
77	18.81	6.32E-03	*****	6.92E-03	*****
78	19.06	6.30E-03	*****	7.17E-03	*****
79	19.30	6.25E-03	*****	6.79E-03	*****
80	19.55	6.28E-03	*****	6.98E-03	*****
81	19.79	6.58E-03	*****	7.33E-03	*****
82	20.04	6.90E-03	*****	7.61E-03	*****
83	20.29	7.54E-03	*****	8.10E-03	*****
84	20.53	8.29E-03	*****	8.49E-03	*****
85	20.78	8.65E-03	*****	8.82E-03	*****
86	21.02	9.04E-03	*****	9.25E-03	*****
87	21.27	9.50E-03	*****	1.00E-02	*****
88	21.52	1.04E-02	*****	1.13E-02	*****
89	21.76	1.09E-02	*****	1.13E-02	*****
90	22.01	1.13E-02	*****	1.09E-02	*****
91	22.25	1.17E-02	*****	1.21E-02	*****
92	22.50	1.21E-02	*****	1.22E-02	*****
93	22.75	1.23E-02	*****	1.25E-02	*****
94	22.99	1.24E-02	*****	1.22E-02	*****
95	23.24	1.22E-02	*****	1.31E-02	*****
96	23.48	1.24E-02	*****	1.30E-02	*****
97	23.73	1.21E-02	*****	1.25E-02	*****
98	23.98	1.19E-02	*****	1.22E-02	*****
99	24.22	1.16E-02	*****	1.13E-02	*****
100	24.47	1.20E-02	*****	1.14E-02	*****
101	24.71	1.20E-02	*****	1.21E-02	*****
102	24.96	1.30E-02	*****	1.34E-02	*****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.40E-02	*****	1.46E-02	*****
104	25.45	1.48E-02	*****	1.50E-02	*****
105	25.70	1.59E-02	*****	1.43E-02	*****
106	25.94	1.59E-02	*****	1.46E-02	*****
107	26.19	1.49E-02	*****	1.29E-02	*****
108	26.43	1.40E-02	*****	1.26E-02	*****
109	26.68	1.29E-02	*****	1.23E-02	*****
110	26.93	1.26E-02	*****	1.19E-02	*****
111	27.17	1.29E-02	*****	1.27E-02	*****
112	27.42	1.32E-02	*****	1.23E-02	*****
113	27.66	1.37E-02	*****	1.26E-02	*****
114	27.91	1.33E-02	*****	1.23E-02	*****
115	28.16	1.26E-02	*****	1.19E-02	*****
116	28.40	1.19E-02	*****	1.14E-02	*****
117	28.65	1.14E-02	*****	1.09E-02	*****
118	28.89	1.09E-02	*****	9.99E-03	*****
119	29.14	1.05E-02	*****	9.55E-03	*****
120	29.39	1.01E-02	*****	9.19E-03	*****
121	29.63	1.00E-02	*****	9.12E-03	*****
122	29.88	4.93E-03	*****	1.83E-03	39.8
123	30.12	1.33E-02	*****	4.56E-03	*****
124	30.37	1.07E-02	*****	1.74E-02	*****
125	30.61	1.06E-02	*****	1.35E-02	*****
126	30.86	1.12E-02	*****	1.14E-02	*****
127	31.11	1.15E-02	*****	1.01E-02	*****
128	31.35	1.14E-02	*****	1.27E-02	*****
129	31.60	1.08E-02	*****	1.24E-02	*****
130	31.84	1.04E-02	*****	1.18E-02	*****
131	32.09	1.07E-02	*****	1.10E-02	*****
132	32.34	1.08E-02	*****	1.10E-02	*****
133	32.58	1.14E-02	*****	1.15E-02	*****
134	32.83	1.12E-02	*****	1.09E-02	*****
135	33.07	1.10E-02	*****	1.06E-02	*****
136	33.32	1.09E-02	*****	1.05E-02	*****
137	33.57	1.09E-02	*****	1.02E-02	*****
138	33.81	1.07E-02	*****	1.00E-02	*****
139	34.06	1.04E-02	*****	1.02E-02	*****
140	34.30	1.02E-02	*****	9.34E-03	*****
141	34.55	1.05E-02	*****	9.66E-03	*****
142	34.79	9.92E-03	*****	9.86E-03	*****
143	35.04	1.00E-02	*****	9.93E-03	*****
144	35.29	1.00E-02	*****	9.90E-03	*****
145	35.53	1.00E-02	*****	9.77E-03	*****
146	35.78	9.96E-03	*****	9.91E-03	*****
147	36.02	9.91E-03	*****	9.70E-03	*****
148	36.27	1.00E-02	*****	1.01E-02	*****
149	36.52	1.02E-02	*****	1.03E-02	*****
150	36.76	1.02E-02	*****	1.03E-02	*****
151	37.01	1.03E-02	*****	1.01E-02	*****
152	37.25	1.04E-02	*****	1.00E-02	*****
153	37.50	1.01E-02	*****	1.02E-02	*****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	9.81E-03	*****	9.77E-03	*****
155	37.99	9.92E-03	*****	9.78E-03	*****
156	38.24	9.95E-03	*****	9.38E-03	*****
157	38.48	9.79E-03	*****	1.01E-02	*****
158	38.73	9.49E-03	*****	9.93E-03	*****
159	38.98	9.57E-03	*****	9.92E-03	*****
160	39.22	9.24E-03	*****	1.00E-02	*****
161	39.47	9.17E-03	*****	9.90E-03	*****
162	39.71	9.04E-03	*****	9.55E-03	*****
163	39.96	8.47E-03	*****	9.70E-03	*****
164	40.20	8.68E-03	*****	9.22E-03	*****
165	40.45	3.48E-03	*****	8.96E-03	*****
166	40.70	7.41E-03	*****	8.31E-03	*****
167	40.94	7.31E-03	*****	7.36E-03	*****
168	41.19	7.17E-03	*****	7.31E-03	*****
169	41.43	6.89E-03	*****	7.26E-03	*****
170	41.68	6.69E-03	*****	7.20E-03	*****
171	41.93	6.92E-03	*****	7.18E-03	*****
172	42.17	6.89E-03	*****	6.95E-03	*****
173	42.42	6.91E-03	*****	7.03E-03	*****
174	42.66	6.74E-03	*****	6.86E-03	*****
175	42.91	6.57E-03	*****	7.00E-03	*****
176	43.16	6.69E-03	*****	6.97E-03	*****
177	43.40	6.67E-03	*****	6.97E-03	*****
178	43.65	6.89E-03	*****	6.96E-03	*****
179	43.89	6.76E-03	*****	7.00E-03	*****
180	44.14	7.08E-03	*****	7.27E-03	*****
181	44.39	6.97E-03	*****	7.14E-03	*****
182	44.63	6.83E-03	*****	7.12E-03	*****
183	44.88	6.66E-03	*****	6.98E-03	*****
184	45.12	6.61E-03	*****	6.92E-03	*****
185	45.37	6.42E-03	*****	7.06E-03	*****
186	45.61	6.41E-03	*****	6.89E-03	*****
187	45.86	6.48E-03	*****	6.77E-03	*****
188	46.11	6.18E-03	*****	6.76E-03	*****
189	46.35	5.97E-03	*****	6.65E-03	*****
190	46.60	5.63E-03	*****	8.59E-03	32.3
191	46.84	5.38E-03	*****	6.01E-03	*****
192	47.09	5.32E-03	*****	5.55E-03	*****
193	47.34	4.93E-03	*****	5.67E-03	*****
194	47.58	4.73E-03	*****	5.10E-03	*****
195	47.83	4.56E-03	*****	5.00E-03	*****
196	48.07	4.30E-03	*****	4.89E-03	*****
197	48.32	4.52E-03	*****	4.76E-03	*****
198	48.57	4.43E-03	*****	4.72E-03	*****
199	48.81	4.44E-03	*****	4.36E-03	*****
200	49.06	4.41E-03	*****	4.34E-03	*****
201	49.30	4.23E-03	*****	4.37E-03	*****
202	49.55	4.15E-03	*****	4.48E-03	*****
203	49.79	4.23E-03	*****	4.33E-03	*****
204	50.04	4.08E-03	*****	4.26E-03	*****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	4.24E-03	*****	4.50E-03	*****
206	50.53	3.81E-03	*****	4.21E-03	*****
207	50.73	3.88E-03	*****	4.19E-03	*****
208	51.02	3.92E-03	*****	3.72E-03	*****
209	51.27	3.76E-03	*****	3.80E-03	*****
210	51.52	3.78E-03	*****	3.69E-03	*****
211	51.76	3.59E-03	*****	3.63E-03	*****
212	52.01	3.54E-03	*****	3.55E-03	*****
213	52.25	3.41E-03	*****	3.45E-03	*****
214	52.50	3.24E-03	*****	3.06E-03	*****
215	52.75	3.33E-03	*****	3.43E-03	*****
216	52.99	3.13E-03	*****	3.30E-03	*****
217	53.24	3.22E-03	*****	3.21E-03	*****
218	53.48	3.14E-03	*****	3.14E-03	*****
219	53.73	3.20E-03	*****	3.14E-03	*****
220	53.98	3.24E-03	*****	3.05E-03	*****
221	54.22	3.09E-03	*****	3.10E-03	*****
222	54.47	3.34E-03	*****	3.02E-03	*****
223	54.71	3.11E-03	*****	3.07E-03	*****
224	54.96	3.26E-03	*****	3.09E-03	*****
225	55.20	3.18E-03	*****	3.05E-03	*****
226	55.45	3.02E-03	*****	3.03E-03	*****
227	55.70	3.34E-03	*****	3.03E-03	*****
228	55.94	3.28E-03	*****	3.15E-03	*****
229	56.19	3.16E-03	*****	3.18E-03	*****
230	56.43	3.32E-03	*****	3.06E-03	*****
231	56.68	3.33E-03	*****	3.00E-03	*****
232	56.93	3.32E-03	*****	3.04E-03	*****
233	57.17	3.29E-03	*****	3.07E-03	*****
234	57.42	3.17E-03	*****	2.97E-03	*****
235	57.66	3.22E-03	*****	3.00E-03	*****
236	57.91	3.29E-03	*****	2.90E-03	*****
237	58.16	3.46E-03	*****	3.06E-03	*****
238	58.40	3.75E-03	*****	3.13E-03	*****
239	58.65	3.85E-03	*****	3.11E-03	*****
240	58.89	3.81E-03	*****	3.06E-03	*****
241	59.14	5.74E-03	*****	2.96E-03	*****
242	59.39	4.96E-03	*****	5.34E-03	*****
243	59.63	4.43E-03	*****	4.63E-03	*****
244	59.88	3.36E-03	*****	4.18E-03	*****
245	60.12	3.75E-03	*****	3.60E-03	*****
246	60.37	3.82E-03	*****	3.36E-03	*****
247	60.61	3.56E-03	*****	3.31E-03	*****
248	60.86	3.38E-03	*****	3.29E-03	*****
249	61.11	3.23E-03	*****	2.24E-03	*****
250	61.35	2.03E-03	*****	2.07E-03	*****
251	61.60	1.92E-03	*****	2.00E-03	*****
252	61.84	1.78E-03	*****	1.92E-03	*****
253	62.09	1.77E-03	*****	1.97E-03	*****
254	62.34	1.68E-03	*****	1.95E-03	*****
255	62.58	1.57E-03	*****	1.91E-03	*****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.58E-03	****	1.89E-03	****
257	63.07	1.56E-03	****	1.80E-03	****
258	63.32	1.58E-03	****	1.76E-03	****
259	63.57	1.52E-03	****	1.73E-03	****
260	63.81	1.48E-03	****	1.69E-03	****
261	64.06	1.43E-03	****	1.66E-03	****
262	64.30	1.48E-03	****	1.62E-03	****
263	64.55	1.48E-03	****	1.61E-03	****
264	64.79	1.46E-03	****	1.55E-03	****
265	65.04	1.48E-03	****	1.57E-03	****
266	65.29	1.49E-03	****	1.59E-03	****
267	65.53	1.42E-03	****	1.64E-03	****
268	65.78	1.49E-03	****	1.67E-03	****
269	66.02	1.49E-03	****	1.68E-03	****
270	66.27	1.47E-03	****	1.67E-03	****
271	66.52	1.46E-03	****	1.63E-03	****
272	66.76	1.47E-03	****	1.64E-03	****
273	67.01	1.47E-03	****	1.62E-03	****
274	67.25	1.42E-03	****	1.56E-03	****
275	67.50	1.33E-03	****	1.46E-03	****
276	67.75	1.33E-03	****	1.39E-03	****
277	67.99	1.38E-03	****	1.23E-03	****
278	68.24	1.40E-03	****	1.22E-03	****
279	68.48	1.41E-03	****	1.32E-03	****
280	68.73	1.22E-03	****	1.35E-03	****
281	68.98	1.14E-03	****	1.28E-03	****
282	69.22	1.10E-03	****	1.14E-03	****
283	69.47	1.13E-03	****	1.15E-03	****
284	69.71	1.14E-03	****	1.09E-03	****
285	69.96	1.12E-03	****	1.11E-03	****
286	70.20	1.11E-03	****	1.06E-03	****
287	70.45	1.10E-03	****	1.00E-03	****
288	70.70	1.11E-03	****	1.02E-03	****
289	70.94	1.06E-03	****	1.10E-03	****
290	71.19	1.55E-03	32.2	9.59E-04	****
291	71.43	1.04E-03	****	9.46E-04	****
292	71.68	1.05E-03	****	9.35E-04	****
293	71.93	1.02E-03	****	9.21E-04	****
294	72.17	1.00E-03	****	8.97E-04	****
295	72.42	9.54E-04	****	8.76E-04	****
296	72.66	9.55E-04	****	7.95E-04	****
297	72.91	9.62E-04	****	7.88E-04	****
298	73.16	8.92E-04	****	8.11E-04	****
299	73.40	8.13E-04	****	7.82E-04	****
300	73.65	8.60E-04	****	7.88E-04	****
301	73.89	6.90E-04	****	7.25E-04	****
302	74.14	5.66E-04	****	6.68E-04	****
303	74.38	4.59E-04	****	5.18E-04	****
304	74.63	4.20E-04	****	4.49E-04	****
305	74.88	3.72E-04	****	4.25E-04	****
306	75.12	3.49E-04	****	3.94E-04	****

Table A-6 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	3.37E-04	****	3.78E-04	****
308	75.61	3.29E-04	****	3.60E-04	****
309	75.86	3.17E-04	****	3.38E-04	****
310	76.11	3.11E-04	****	3.27E-04	****
311	76.35	3.15E-04	****	3.39E-04	****
312	76.60	3.24E-04	****	3.24E-04	****
313	76.84	3.36E-04	****	3.38E-04	****
314	77.09	3.40E-04	****	3.57E-04	****
315	77.34	3.28E-04	****	3.72E-04	****
316	77.58	3.31E-04	****	3.59E-04	****
317	77.83	3.18E-04	****	3.48E-04	****
318	78.07	3.09E-04	****	3.38E-04	****
319	78.32	2.99E-04	****	3.20E-04	****
320	78.57	2.71E-04	****	2.87E-04	****
321	78.81	2.51E-04	****	2.12E-04	****
322	79.06	2.39E-04	****	1.92E-04	****
323	79.30	1.54E-04	****	1.87E-04	****
324	79.55	1.51E-04	****	1.85E-04	****
325	79.79	1.48E-04	****	1.79E-04	****
326	80.04	1.62E-04	****	1.81E-04	****
327	80.29	1.83E-04	****	2.30E-04	****
328	80.53	1.88E-04	****	2.94E-04	****
329	80.78	1.94E-04	****	3.64E-04	****
330	81.02	2.12E-04	****	3.70E-04	****
331	81.27	2.20E-04	****	3.97E-04	****
332	81.52	2.27E-04	****	4.30E-04	****
333	81.76	2.33E-04	****	4.64E-04	****
334	82.01	2.44E-04	****	4.66E-04	****
335	82.25	2.16E-04	****	4.56E-04	****
336	82.50	1.89E-04	****	4.44E-04	****
337	82.75	1.59E-04	****	3.66E-04	****
338	82.99	1.47E-04	****	3.10E-04	****
339	83.24	1.49E-04	****	3.06E-04	****
340	83.48	1.37E-04	****	3.23E-04	****
341	83.73	1.06E-04	****	3.06E-04	****
342	83.97	9.42E-05	****	1.59E-04	****
343	84.22	8.61E-05	****	1.23E-04	****
344	84.47	7.22E-05	****	1.07E-04	****
345	84.71	6.43E-05	****	9.03E-05	****
346	84.96	5.76E-05	****	7.20E-05	****
347	85.20	5.71E-05	****	6.62E-05	****
348	85.45	5.35E-05	****	6.40E-05	****
349	85.70	6.89E-05	37.3	5.85E-05	****
350	85.94	6.66E-05	38.4	5.83E-05	****
351	86.19	6.89E-05	31.6	9.26E-05	29.2
352	86.43	9.74E-05	17.5	5.85E-05	38.9
353	86.68	1.40E-04	12.5	4.56E-05	****
354	86.93	1.75E-04	9.9	6.02E-05	34.2
355	87.17	2.52E-04	7.4	4.24E-05	****
356	87.42	2.89E-04	7.0	3.91E-05	33.1
357	87.66	3.91E-04	5.7	6.46E-05	22.9
358	87.91	3.93E-04	5.6	6.65E-05	22.4

Table A-7. Axial distribution of ^{125}Sb in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	3.63E-04	****	4.44E-04	****
2	1.63	3.37E-04	****	4.50E-04	****
3	1.39	3.29E-04	****	4.63E-04	****
4	1.14	3.25E-04	****	4.80E-04	****
5	0.89	3.41E-04	****	5.16E-04	****
6	0.65	4.24E-04	****	7.32E-04	****
7	0.40	7.80E-04	****	8.45E-04	****
8	0.16	1.44E-03	****	4.03E-04	****
9	0.09	9.42E-04	****	3.29E-04	****
10	0.34	5.24E-04	****	2.55E-04	****
11	0.58	4.43E-04	****	2.47E-04	****
12	0.83	4.35E-04	****	2.44E-04	****
13	1.07	4.27E-04	****	2.41E-04	****
14	1.32	4.28E-04	****	2.45E-04	****
15	1.57	4.31E-04	****	2.49E-04	****
16	1.81	4.26E-04	****	2.57E-04	****
17	2.06	4.18E-04	****	2.77E-04	****
18	2.30	4.40E-04	****	3.55E-04	****
19	2.55	5.20E-04	****	4.43E-04	****
20	2.80	6.78E-04	****	4.48E-04	****
21	3.04	6.59E-04	****	4.04E-04	****
22	3.29	5.36E-04	****	3.91E-04	****
23	3.53	5.00E-04	****	3.93E-04	****
24	3.78	5.06E-04	****	4.03E-04	****
25	4.02	5.04E-04	****	4.35E-04	****
26	4.27	5.17E-04	****	4.75E-04	****
27	4.52	5.41E-04	****	5.35E-04	****
28	4.76	6.47E-04	****	6.19E-04	****
29	5.01	8.17E-04	****	7.62E-04	****
30	5.25	1.00E-03	****	1.35E-03	****
31	5.50	1.34E-03	****	1.77E-03	****
32	5.75	1.97E-03	****	1.76E-03	****
33	5.99	1.95E-03	****	1.26E-03	****
34	6.24	1.29E-03	****	9.10E-04	****
35	6.48	8.21E-04	****	8.60E-04	****
36	6.73	7.58E-04	****	8.86E-04	****
37	6.98	7.75E-04	****	9.68E-04	****
38	7.22	7.82E-04	****	1.00E-03	****
39	7.47	8.23E-04	****	1.05E-03	****
40	7.71	8.14E-04	****	1.14E-03	****
41	7.96	8.81E-04	****	1.22E-03	****
42	8.20	9.85E-04	****	1.44E-03	****
43	8.45	1.23E-03	****	1.79E-03	****
44	8.70	1.78E-03	****	1.87E-03	****
45	8.94	1.85E-03	****	2.35E-02	****
46	9.19	1.62E-03	****	1.95E-03	****
47	9.43	1.36E-03	****	1.79E-03	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	1.32E-03	****	1.84E-03	****
49	9.93	1.36E-03	****	1.90E-03	****
50	10.17	1.35E-03	****	1.91E-03	****
51	10.42	1.35E-03	****	2.03E-03	****
52	10.66	1.41E-03	****	1.98E-03	****
53	10.91	1.41E-03	****	2.13E-03	****
54	11.16	1.58E-03	****	2.21E-03	****
55	11.40	1.70E-03	****	2.44E-03	****
56	11.65	1.92E-03	****	2.93E-03	****
57	11.89	2.19E-03	****	2.78E-03	****
58	12.14	2.32E-03	****	2.70E-03	****
59	12.39	2.47E-03	****	2.78E-03	****
60	12.63	2.76E-03	****	2.87E-03	****
61	12.88	2.98E-03	****	3.00E-02	****
62	13.12	8.15E-03	****	8.26E-03	****
63	13.37	8.64E-03	****	8.40E-03	****
64	13.61	8.89E-03	****	8.96E-03	****
65	13.86	9.45E-03	****	9.22E-03	****
66	14.11	9.61E-03	****	1.00E-02	****
67	14.35	1.03E-02	****	1.04E-02	****
68	14.60	1.07E-02	****	1.06E-02	****
69	14.84	1.14E-02	****	1.14E-02	****
70	15.09	1.11E-02	****	1.03E-02	****
71	15.34	8.13E-03	****	8.22E-03	****
72	15.58	7.51E-03	****	7.97E-03	****
73	15.83	7.40E-03	****	8.27E-03	****
74	16.07	7.61E-03	****	8.80E-03	****
75	16.32	8.39E-03	****	9.36E-03	****
76	16.57	8.73E-03	****	9.92E-03	****
77	16.81	9.46E-03	****	1.09E-02	****
78	17.06	1.03E-02	****	1.17E-02	****
79	17.30	1.10E-02	****	1.35E-02	****
80	17.55	1.28E-02	****	1.49E-02	****
81	17.79	1.41E-02	****	1.67E-02	****
82	18.04	1.63E-02	****	1.88E-02	****
83	18.29	1.68E-02	****	1.77E-02	****
84	18.53	1.69E-02	****	1.83E-02	****
85	18.78	1.73E-02	****	1.92E-02	****
86	19.02	1.82E-02	****	1.98E-02	****
87	19.27	1.90E-02	****	2.08E-02	****
88	19.52	2.04E-02	****	2.20E-02	****
89	19.76	2.06E-02	****	2.26E-02	****
90	20.01	2.14E-02	****	2.39E-02	****
91	20.25	2.26E-02	****	2.51E-02	****
92	20.50	2.28E-02	****	2.49E-02	****
93	20.75	2.41E-02	****	2.56E-02	****
94	20.99	2.74E-02	****	2.93E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	2.72E-02	****	2.71E-02	****
96	21.48	2.48E-02	****	2.33E-02	****
97	21.73	2.48E-02	****	2.34E-02	****
98	21.98	2.62E-02	****	2.44E-02	****
99	22.22	2.66E-02	****	2.55E-02	****
100	22.47	2.77E-02	****	2.58E-02	****
101	22.71	2.88E-02	****	2.70E-02	****
102	22.96	2.83E-02	****	2.63E-02	****
103	23.20	2.90E-02	****	2.62E-02	****
104	23.45	3.05E-02	****	2.70E-02	****
105	23.70	3.17E-02	****	2.82E-02	****
106	23.94	3.58E-02	****	3.17E-02	****
107	24.19	3.53E-02	****	3.35E-02	****
108	24.43	3.17E-02	****	3.06E-02	****
109	24.68	3.17E-02	****	2.83E-02	****
110	24.93	3.13E-02	****	2.74E-02	****
111	25.17	3.18E-02	****	2.86E-02	****
112	25.42	3.22E-02	****	2.91E-02	****
113	25.66	3.31E-02	****	2.86E-02	****
114	25.91	3.37E-02	****	2.98E-02	****
115	26.16	3.36E-02	****	2.76E-02	****
116	26.40	3.33E-02	****	2.77E-02	****
117	26.65	3.33E-02	****	2.82E-02	****
118	26.89	3.26E-02	****	2.82E-02	****
119	27.14	3.31E-02	****	3.31E-02	****
120	27.39	3.20E-02	****	3.21E-02	****
121	27.63	3.15E-02	****	2.70E-02	****
122	27.88	3.26E-02	****	2.64E-02	****
123	28.12	3.25E-02	****	2.53E-02	****
124	28.37	3.29E-02	****	2.62E-02	****
125	28.61	3.23E-02	****	2.55E-02	****
126	28.86	3.18E-02	****	2.49E-02	****
127	29.11	3.36E-02	****	2.59E-02	****
128	29.35	3.18E-02	****	2.47E-02	****
129	29.60	3.28E-02	****	2.55E-02	****
130	29.84	3.35E-02	****	2.81E-02	****
131	30.09	2.38E-02	****	1.28E-02	****
132	30.34	3.65E-02	****	3.35E-02	****
133	30.58	3.43E-02	****	3.69E-02	****
134	30.83	3.36E-02	****	3.77E-02	****
135	31.07	3.60E-02	****	3.79E-02	****
136	31.32	3.72E-02	****	3.78E-02	****
137	31.57	3.79E-02	****	3.74E-02	****
138	31.81	3.98E-02	****	3.70E-02	****
139	32.06	4.01E-02	****	3.89E-02	****
140	32.30	4.07E-02	****	3.69E-02	****
141	32.55	4.15E-02	****	3.56E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	4.09E-02	****	3.72E-02	****
143	33.04	4.14E-02	****	3.73E-02	****
144	33.29	4.49E-02	****	3.92E-02	****
145	33.53	4.33E-02	****	3.84E-02	****
146	33.78	4.35E-02	****	3.82E-02	****
147	34.02	4.29E-02	****	3.67E-02	****
148	34.27	4.17E-02	****	3.63E-02	****
149	34.52	4.03E-02	****	3.53E-02	****
150	34.76	3.83E-02	****	3.50E-02	****
151	35.01	3.84E-02	****	3.47E-02	****
152	35.25	3.79E-02	****	3.46E-02	****
153	35.50	3.70E-02	****	3.47E-02	****
154	35.75	3.70E-02	****	3.47E-02	****
155	35.99	3.68E-02	****	3.51E-02	****
156	36.24	4.00E-02	****	3.72E-02	****
157	36.48	4.28E-02	****	4.06E-02	****
158	36.73	4.02E-02	****	3.87E-02	****
159	36.98	4.08E-02	****	3.94E-02	****
160	37.22	3.82E-02	****	3.81E-02	****
161	37.47	3.79E-02	****	3.68E-02	****
162	37.71	3.77E-02	****	3.68E-02	****
163	37.96	3.63E-02	****	3.63E-02	****
164	38.20	3.64E-02	****	3.42E-02	****
165	38.45	3.64E-02	****	3.50E-02	****
166	38.70	3.62E-02	****	3.46E-02	****
167	38.94	3.53E-02	****	3.40E-02	****
168	39.19	3.57E-02	****	3.40E-02	****
169	39.43	4.02E-02	****	3.73E-02	****
170	39.68	4.66E-02	****	3.77E-02	****
171	39.93	7.37E-02	****	3.64E-02	****
172	40.17	3.92E-02	****	3.69E-02	****
173	40.42	4.05E-02	****	3.69E-02	****
174	40.66	3.90E-02	****	3.60E-02	****
175	40.91	3.94E-02	****	3.63E-02	****
176	41.16	3.81E-02	****	3.49E-02	****
177	41.40	3.74E-02	****	3.42E-02	****
178	41.65	3.76E-02	****	3.48E-02	****
179	41.89	3.72E-02	****	3.44E-02	****
180	42.14	3.65E-02	****	3.66E-02	****
181	42.39	3.89E-02	****	4.11E-02	****
182	42.63	4.39E-02	****	3.96E-02	****
183	42.88	4.48E-02	****	3.86E-02	****
184	43.12	4.33E-02	****	3.80E-02	****
185	43.37	4.32E-02	****	3.71E-02	****
186	43.61	4.34E-02	****	3.75E-02	****
187	43.86	4.21E-02	****	3.69E-02	****
188	44.11	4.25E-02	****	3.83E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	4.33E-02	****	3.68E-02	****
190	44.60	4.16E-02	****	3.64E-02	****
191	44.84	4.13E-02	****	3.60E-02	****
192	45.09	4.05E-02	****	3.52E-02	****
193	45.34	4.20E-02	****	4.18E-02	****
194	45.58	4.70E-02	****	4.17E-02	****
195	45.83	4.64E-02	****	3.81E-02	****
196	46.07	4.62E-02	****	3.79E-02	****
197	46.32	4.49E-02	****	3.79E-02	****
198	46.57	4.53E-02	****	3.84E-02	****
199	46.81	4.55E-02	****	3.82E-02	****
200	47.06	4.43E-02	****	3.77E-02	****
201	47.30	4.48E-02	****	3.73E-02	****
202	47.55	4.23E-02	****	3.61E-02	****
203	47.79	4.07E-02	****	3.53E-02	****
204	48.04	3.91E-02	****	3.45E-02	****
205	48.29	3.73E-02	****	3.70E-02	****
206	48.53	4.20E-02	****	4.13E-02	****
207	48.78	4.55E-02	****	3.79E-02	****
208	49.02	4.27E-02	****	3.65E-02	****
209	49.27	4.25E-02	****	3.67E-02	****
210	49.52	4.17E-02	****	3.52E-02	****
211	49.76	4.17E-02	****	3.35E-02	****
212	50.01	4.23E-02	****	3.37E-02	****
213	50.25	3.96E-02	****	3.22E-02	****
214	50.50	3.88E-02	****	3.15E-02	****
215	50.75	3.82E-02	****	3.02E-02	****
216	50.99	3.48E-02	****	2.85E-02	****
217	51.24	3.38E-02	****	3.01E-02	****
218	51.48	3.51E-02	****	3.36E-02	****
219	51.73	3.95E-02	****	3.08E-02	****
220	51.98	3.70E-02	****	2.88E-02	****
221	52.22	3.41E-02	****	2.83E-02	****
222	52.47	3.50E-02	****	2.88E-02	****
223	52.71	3.36E-02	****	2.90E-02	****
224	52.96	3.26E-02	****	2.84E-02	****
225	53.20	3.22E-02	****	2.83E-02	****
226	53.45	3.19E-02	****	2.72E-02	****
227	53.70	3.03E-02	****	2.78E-02	****
228	53.94	2.98E-02	****	2.64E-02	****
229	54.19	2.82E-02	****	2.60E-02	****
230	54.43	2.75E-02	****	2.85E-02	****
231	54.68	3.03E-02	****	3.05E-02	****
232	54.93	3.25E-02	****	3.09E-02	****
233	55.17	3.34E-02	****	3.04E-02	****
234	55.42	3.25E-02	****	2.95E-02	****
235	55.66	3.22E-02	****	3.02E-02	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	3.35E-02	****	2.93E-02	****
237	56.16	3.17E-02	****	3.01E-02	****
238	56.40	3.18E-02	****	2.98E-02	****
239	56.65	3.11E-02	****	2.85E-02	****
240	56.89	2.95E-02	****	2.83E-02	****
241	57.14	2.81E-02	****	2.72E-02	****
242	57.39	2.77E-02	****	3.23E-02	****
243	57.63	3.01E-02	****	3.42E-02	****
244	57.88	3.07E-02	****	3.37E-02	****
245	58.12	3.17E-02	****	3.45E-02	****
246	58.37	3.37E-02	****	3.46E-02	****
247	58.61	3.42E-02	****	3.45E-02	****
248	58.86	3.47E-02	****	3.48E-02	****
249	59.11	3.50E-02	****	3.31E-02	****
250	59.35	3.42E-02	****	3.30E-02	****
251	59.60	3.28E-02	****	3.17E-02	****
252	59.84	3.19E-02	****	2.96E-02	****
253	60.09	1.05E-02	****	1.15E-02	****
254	60.34	2.49E-02	****	2.72E-02	****
255	60.58	2.72E-02	****	3.03E-02	****
256	60.83	2.86E-02	****	3.12E-02	****
257	61.07	3.06E-02	****	3.15E-02	****
258	61.32	3.04E-02	****	2.85E-02	****
259	61.57	2.84E-02	****	2.73E-02	****
260	61.81	2.82E-02	****	2.59E-02	****
261	62.06	2.55E-02	****	2.52E-03	****
262	62.30	2.31E-02	****	2.39E-03	****
263	62.55	2.08E-02	****	2.18E-03	****
264	62.79	1.89E-02	****	2.19E-03	****
265	63.04	2.01E-02	****	2.46E-03	****
266	63.29	2.03E-02	****	2.66E-03	****
267	63.53	1.92E-02	****	2.86E-03	****
268	63.78	1.92E-02	****	2.88E-03	****
269	64.02	1.78E-02	****	2.71E-03	****
270	64.27	1.75E-02	****	2.67E-03	****
271	64.52	1.69E-02	****	2.49E-03	****
272	64.76	1.52E-02	****	2.28E-03	****
273	65.01	1.50E-02	****	2.12E-03	****
274	65.25	1.37E-02	****	1.88E-03	****
275	65.50	1.33E-02	****	1.74E-03	****
276	65.75	1.34E-02	****	1.63E-03	****
277	65.99	1.42E-02	****	1.72E-03	****
278	66.24	1.60E-02	****	1.90E-03	****
279	66.48	1.71E-02	****	1.98E-03	****
280	66.73	1.74E-02	****	2.05E-03	****
281	66.98	1.76E-02	****	2.05E-03	****
282	67.22	1.60E-02	****	1.99E-03	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	1.57E-02	****	1.96E-03	****
284	67.71	1.48E-02	****	1.88E-03	****
285	67.96	1.37E-02	****	1.82E-03	****
286	68.20	1.33E-02	****	1.77E-03	****
287	68.45	1.22E-02	****	1.65E-03	****
288	68.70	1.19E-02	****	1.59E-03	****
289	68.94	1.25E-02	****	1.65E-03	****
290	69.19	1.25E-02	****	1.71E-03	****
291	69.43	1.33E-02	****	1.62E-03	****
292	69.68	1.43E-02	****	1.59E-03	****
293	69.93	1.34E-02	****	1.54E-03	****
294	70.17	1.32E-02	****	1.53E-03	****
295	70.42	1.22E-02	****	1.48E-03	****
296	70.66	1.19E-02	****	1.45E-03	****
297	70.91	1.18E-02	****	1.44E-03	****
298	71.16	1.09E-02	****	1.40E-03	****
299	71.40	1.04E-02	****	1.30E-03	****
300	71.65	9.78E-03	****	1.27E-03	****
301	71.89	9.49E-03	****	1.29E-03	****
302	72.14	1.01E-02	****	1.32E-03	****
303	72.38	6.30E-03	****	1.38E-03	****
304	72.63	8.38E-03	****	1.39E-03	****
305	72.88	1.17E-02	****	1.36E-03	****
306	73.12	1.39E-02	****	1.28E-03	****
307	73.37	1.43E-02	****	1.22E-03	****
308	73.61	1.27E-02	****	1.16E-03	****
309	73.86	1.24E-02	****	1.08E-03	****
310	74.11	1.10E-02	****	1.01E-03	****
311	74.35	9.92E-03	****	9.56E-04	****
312	74.60	9.09E-03	****	2.51E-04	****
313	74.84	8.05E-03	****	2.47E-04	****
314	75.09	7.43E-03	****	2.51E-04	****
315	75.34	3.20E-03	****	2.71E-04	****
316	75.58	3.12E-03	****	2.66E-04	****
317	75.83	3.55E-03	****	9.79E-04	****
318	76.07	3.40E-03	****	8.62E-04	****
319	76.32	2.80E-03	****	7.87E-04	****
320	76.57	2.51E-03	****	7.77E-04	****
321	76.81	2.35E-03	****	7.00E-04	****
322	77.06	2.23E-03	****	6.69E-04	****
323	77.30	2.15E-03	****	6.52E-04	****
324	77.55	2.00E-03	****	6.40E-04	****
325	77.79	2.03E-03	****	6.17E-04	****
326	78.04	2.01E-03	****	5.62E-04	****
327	78.29	1.93E-03	****	5.47E-04	****
328	78.53	2.02E-03	****	5.84E-04	****
329	78.78	2.23E-03	****	6.15E-04	****

Table A-7 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	2.63E-03	****	6.44E-04	****
331	79.27	2.39E-03	****	6.10E-04	****
332	79.52	2.02E-03	****	5.80E-04	****
333	79.76	1.97E-03	****	1.59E-04	****
334	80.01	1.77E-03	****	1.46E-04	****
335	80.25	1.69E-03	****	1.38E-04	****
336	80.50	1.65E-03	****	1.26E-04	****
337	80.75	1.56E-03	****	1.13E-04	****
338	80.99	1.49E-03	****	1.04E-04	****
339	81.24	1.36E-03	****	9.76E-05	****
340	81.48	1.38E-03	****	9.78E-05	****
341	81.73	1.50E-03	****	4.27E-04	****
342	81.97	1.50E-03	****	4.46E-04	****
343	82.22	1.58E-03	****	4.30E-04	****
344	82.47	1.47E-03	****	4.16E-04	****
345	82.71	1.29E-03	****	4.12E-04	****
346	82.96	1.29E-03	****	3.88E-04	****
347	83.20	1.20E-03	****	3.67E-04	****
348	83.45	1.11E-03	****	3.33E-04	****
349	83.70	1.08E-03	****	2.93E-04	****
350	83.94	9.33E-04	****	2.61E-04	****
351	84.19	6.03E-04	****	5.61E-04	****
352	84.43	6.03E-04	****	4.71E-04	****
353	84.68	5.73E-04	****	5.18E-04	****
354	84.93	5.52E-04	****	1.50E-04	****
355	85.17	5.95E-04	****	1.25E-04	****
356	85.42	4.85E-04	****	1.05E-04	****
357	85.66	3.90E-04	****	8.41E-05	****
358	85.91	3.27E-04	****	6.91E-05	****
359	86.16	2.81E-04	****	5.94E-05	****
360	86.40	2.37E-04	****	5.50E-05	****
361	86.65	2.11E-04	****	5.53E-05	****
362	86.89	1.98E-04	****	5.59E-05	****
363	87.14	1.95E-04	****	5.84E-05	****
364	87.38	2.01E-04	****	6.42E-05	****
365	87.63	2.11E-04	****	7.03E-05	****
366	87.88	2.31E-04	****	7.57E-05	****
367	88.12	2.46E-04	****	8.29E-05	****
368	88.37	2.62E-04	****	9.61E-05	****
369	88.61	2.86E-04	****	1.22E-04	****
370	88.86	3.29E-04	****	1.46E-04	****
371	89.11	4.19E-04	****	1.65E-04	****
372	89.35	4.97E-04	****	1.81E-04	****
373	89.60	5.61E-04	****	1.94E-04	****
374	89.84	6.19E-04	****	2.04E-04	****

Table A-8. Axial distribution of ^{125}Sb in the spine of element FO5-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.68E-04	*****	8.63E-04	37.1
2	0.37	5.72E-04	*****	4.73E-04	*****
3	0.61	4.11E-04	*****	4.46E-04	*****
4	0.86	4.06E-04	*****	4.66E-04	*****
5	1.11	4.19E-04	*****	5.21E-04	*****
6	1.35	4.73E-04	*****	5.97E-04	*****
7	1.60	5.40E-04	*****	6.70E-04	*****
8	1.84	6.02E-04	*****	7.41E-04	*****
9	2.09	6.50E-04	*****	9.93E-04	*****
10	2.34	8.62E-04	*****	1.04E-03	*****
11	2.58	9.13E-04	*****	1.09E-03	*****
12	2.83	9.44E-04	*****	1.14E-03	*****
13	3.07	9.79E-04	*****	1.23E-03	*****
14	3.32	1.04E-03	*****	1.25E-03	*****
15	3.57	1.06E-03	*****	1.28E-03	*****
16	3.81	1.14E-03	*****	1.34E-03	*****
17	4.06	1.23E-03	*****	1.45E-03	*****
18	4.30	1.32E-03	*****	1.54E-03	*****
19	4.55	1.40E-03	*****	1.63E-03	*****
20	4.80	1.47E-03	*****	1.70E-03	*****
21	5.04	1.55E-03	*****	1.79E-03	*****
22	5.29	1.55E-03	*****	1.89E-03	*****
23	5.53	1.60E-03	*****	2.03E-03	*****
24	5.78	1.72E-03	*****	2.20E-03	*****
25	6.02	1.82E-03	*****	2.32E-03	*****
26	6.27	1.95E-03	*****	2.31E-03	*****
27	6.52	1.90E-03	*****	2.34E-03	*****
28	6.76	1.90E-03	*****	2.45E-03	*****
29	7.01	1.99E-03	*****	2.59E-03	*****
30	7.25	2.13E-03	*****	2.69E-03	*****
31	7.50	2.22E-03	*****	2.76E-03	*****
32	7.75	2.21E-03	*****	5.55E-03	*****
33	7.99	2.23E-03	*****	5.76E-03	*****
34	8.24	2.29E-03	*****	5.97E-03	*****
35	8.48	2.37E-03	*****	6.19E-03	*****
36	8.73	2.52E-03	*****	6.36E-03	*****
37	8.98	4.88E-03	*****	6.42E-03	*****
38	9.22	4.86E-03	*****	6.57E-03	*****
39	9.47	4.95E-03	*****	6.50E-03	*****
40	9.71	4.66E-03	*****	6.58E-03	*****
41	9.96	4.90E-03	*****	6.80E-03	*****
42	10.20	5.25E-03	*****	7.00E-03	*****
43	10.45	5.60E-03	*****	7.35E-03	*****
44	10.70	6.00E-03	*****	7.65E-03	*****
45	10.94	6.00E-03	*****	7.77E-03	*****
46	11.19	6.07E-03	*****	7.83E-03	*****
47	11.43	6.05E-03	*****	7.92E-03	*****
48	11.68	6.11E-03	*****	8.29E-03	*****
49	11.93	5.94E-03	*****	8.41E-03	*****
50	12.17	5.68E-03	*****	8.78E-03	*****
51	12.42	5.51E-03	*****	8.78E-03	*****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	5.31E-03	****	8.82E-03	****
53	12.91	5.32E-03	****	8.80E-03	****
54	13.16	5.39E-03	****	8.66E-03	****
55	13.40	5.33E-03	****	1.09E-02	36.3
56	13.65	5.35E-03	****	8.42E-03	****
57	13.89	5.27E-03	****	8.41E-03	****
58	14.14	5.30E-03	****	8.29E-03	****
59	14.39	5.48E-03	****	8.24E-03	****
60	14.63	5.57E-03	****	8.27E-03	****
61	14.88	5.76E-03	****	8.17E-03	****
62	15.12	5.78E-03	****	8.13E-03	****
63	15.37	5.80E-03	****	8.17E-03	****
64	15.61	5.71E-03	****	8.04E-03	****
65	15.86	5.54E-03	****	7.99E-03	****
66	16.11	5.43E-03	****	8.13E-03	****
67	16.35	5.76E-03	****	8.35E-03	****
68	16.60	6.17E-03	****	8.59E-03	****
69	16.84	6.37E-03	****	8.43E-03	****
70	17.09	6.78E-03	****	8.53E-03	****
71	17.34	7.01E-03	****	8.77E-03	****
72	17.58	7.13E-03	****	8.98E-03	****
73	17.83	7.21E-03	****	9.29E-03	****
74	18.07	7.34E-03	****	9.82E-03	****
75	18.32	8.20E-03	****	1.03E-02	****
76	18.57	9.29E-03	****	1.02E-02	****
77	18.81	9.42E-03	****	1.02E-02	****
78	19.06	9.46E-03	****	1.02E-02	****
79	19.30	9.45E-03	****	1.01E-02	****
80	19.55	9.38E-03	****	1.00E-02	****
81	19.79	9.59E-03	****	1.02E-02	****
82	20.04	1.00E-02	****	1.06E-02	****
83	20.29	1.06E-02	****	1.11E-02	****
84	20.53	1.11E-02	****	1.15E-02	****
85	20.78	1.15E-02	****	1.18E-02	****
86	21.02	1.19E-02	****	1.23E-02	****
87	21.27	1.24E-02	****	1.27E-02	****
88	21.52	1.31E-02	****	1.28E-02	****
89	21.76	1.35E-02	****	1.31E-02	****
90	22.01	1.37E-02	****	1.36E-02	****
91	22.25	1.41E-02	****	1.40E-02	****
92	22.50	1.44E-02	****	1.42E-02	****
93	22.75	1.46E-02	****	1.44E-02	****
94	22.99	1.47E-02	****	1.45E-02	****
95	23.24	1.45E-02	****	1.47E-02	****
96	23.48	1.46E-02	****	1.48E-02	****
97	23.73	1.45E-02	****	1.44E-02	****
98	23.98	1.43E-02	****	1.40E-02	****
99	24.22	1.41E-02	****	1.39E-02	****
100	24.47	1.44E-02	****	1.40E-02	****
101	24.71	1.47E-02	****	1.44E-02	****
102	24.96	1.51E-02	****	1.51E-02	****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.60E-02	*****	1.61E-02	*****
104	25.45	1.68E-02	*****	1.63E-02	*****
105	25.70	1.73E-02	*****	1.63E-02	*****
106	25.94	1.72E-02	*****	1.59E-02	*****
107	26.19	1.68E-02	*****	1.49E-02	*****
108	26.43	1.60E-02	*****	1.44E-02	*****
109	26.68	1.54E-02	*****	1.43E-02	*****
110	26.93	1.52E-02	*****	1.43E-02	*****
111	27.17	1.51E-02	*****	1.44E-02	*****
112	27.42	1.53E-02	*****	1.46E-02	*****
113	27.66	1.54E-02	*****	1.46E-02	*****
114	27.91	1.53E-02	*****	1.44E-02	*****
115	28.16	1.47E-02	*****	1.40E-02	*****
116	28.40	1.43E-02	*****	1.37E-02	*****
117	28.65	1.38E-02	*****	1.32E-02	*****
118	28.89	1.34E-02	*****	1.25E-02	*****
119	29.14	1.30E-02	*****	1.22E-02	*****
120	29.39	1.27E-02	*****	1.19E-02	*****
121	29.63	1.24E-02	*****	1.19E-02	*****
122	29.88	7.99E-03	*****	1.47E-03	*****
123	30.12	1.53E-02	*****	7.21E-03	*****
124	30.37	1.32E-02	*****	1.63E-02	*****
125	30.61	1.30E-02	*****	1.55E-02	*****
126	30.86	1.35E-02	*****	1.39E-02	*****
127	31.11	1.41E-02	*****	1.27E-02	*****
128	31.35	1.39E-02	*****	1.51E-02	*****
129	31.60	1.34E-02	*****	1.47E-02	*****
130	31.84	1.30E-02	*****	1.46E-02	*****
131	32.09	1.31E-02	*****	1.36E-02	*****
132	32.34	1.35E-02	*****	1.35E-02	*****
133	32.58	1.38E-02	*****	1.36E-02	*****
134	32.83	1.39E-02	*****	1.35E-02	*****
135	33.07	1.37E-02	*****	1.31E-02	*****
136	33.32	1.36E-02	*****	1.29E-02	*****
137	33.57	1.33E-02	*****	1.27E-02	*****
138	33.81	1.32E-02	*****	1.26E-02	*****
139	34.06	1.30E-02	*****	1.26E-02	*****
140	34.30	1.29E-02	*****	1.25E-02	*****
141	34.55	1.28E-02	*****	1.25E-02	*****
142	34.79	1.27E-02	*****	1.26E-02	*****
143	35.04	1.26E-02	*****	1.25E-02	*****
144	35.29	1.26E-02	*****	1.25E-02	*****
145	35.53	1.25E-02	*****	1.24E-02	*****
146	35.78	1.26E-02	*****	1.25E-02	*****
147	36.02	1.26E-02	*****	1.25E-02	*****
148	36.27	1.26E-02	*****	1.26E-02	*****
149	36.52	1.27E-02	*****	1.26E-02	*****
150	36.76	1.28E-02	*****	1.26E-02	*****
151	37.01	1.29E-02	*****	1.28E-02	*****
152	37.25	1.29E-02	*****	1.28E-02	*****
153	37.50	1.28E-02	*****	1.28E-02	*****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	1.26E-02	*****	1.26E-02	*****
155	37.99	1.25E-02	*****	1.25E-02	*****
156	38.24	1.25E-02	*****	1.26E-02	*****
157	38.48	1.24E-02	*****	1.25E-02	*****
158	38.73	1.23E-02	*****	1.25E-02	*****
159	38.98	1.21E-02	*****	1.24E-02	*****
160	39.22	1.19E-02	*****	1.24E-02	*****
161	39.47	1.17E-02	*****	1.23E-02	*****
162	39.71	1.16E-02	*****	1.21E-02	*****
163	39.96	1.15E-02	*****	1.20E-02	*****
164	40.20	1.12E-02	*****	1.19E-02	*****
165	40.45	1.09E-02	*****	1.15E-02	*****
166	40.70	1.04E-02	*****	1.11E-02	*****
167	40.94	1.01E-02	*****	1.06E-02	*****
168	41.19	9.84E-03	*****	1.02E-02	*****
169	41.43	9.69E-03	*****	1.00E-02	*****
170	41.68	9.56E-03	*****	9.94E-03	*****
171	41.93	9.57E-03	*****	9.92E-03	*****
172	42.17	9.59E-03	*****	9.85E-03	*****
173	42.42	9.67E-03	*****	9.81E-03	*****
174	42.66	9.68E-03	*****	9.85E-03	*****
175	42.91	9.67E-03	*****	9.89E-03	*****
176	43.16	9.61E-03	*****	9.80E-03	*****
177	43.40	9.64E-03	*****	9.92E-03	*****
178	43.65	9.78E-03	*****	9.93E-03	*****
179	43.89	9.87E-03	*****	1.00E-02	*****
180	44.14	9.96E-03	*****	1.01E-02	*****
181	44.39	9.87E-03	*****	1.00E-02	*****
182	44.63	9.80E-03	*****	1.01E-02	*****
183	44.88	9.65E-03	*****	9.97E-03	*****
184	45.12	9.46E-03	*****	9.95E-03	*****
185	45.37	9.41E-03	*****	9.88E-03	*****
186	45.61	9.40E-03	*****	9.78E-03	*****
187	45.86	9.34E-03	*****	9.84E-03	*****
188	46.11	9.16E-03	*****	9.68E-03	*****
189	46.35	8.90E-03	*****	9.47E-03	*****
190	46.60	8.60E-03	*****	9.19E-03	*****
191	46.84	8.23E-03	*****	8.87E-03	*****
192	47.09	7.98E-03	*****	8.52E-03	*****
193	47.34	7.69E-03	*****	8.15E-03	*****
194	47.58	7.46E-03	*****	7.89E-03	*****
195	47.83	7.30E-03	*****	7.69E-03	*****
196	48.07	7.09E-03	*****	7.52E-03	*****
197	48.32	6.91E-03	*****	7.29E-03	*****
198	48.57	6.90E-03	*****	7.12E-03	*****
199	48.81	6.78E-03	*****	6.97E-03	*****
200	49.06	6.74E-03	*****	6.95E-03	*****
201	49.30	6.71E-03	*****	6.89E-03	*****
202	49.55	6.63E-03	*****	6.82E-03	*****
203	49.79	6.57E-03	*****	6.74E-03	*****
204	50.04	6.61E-03	*****	6.68E-03	*****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	6.56E-03	*****	6.64E-03	*****
206	50.53	6.41E-03	*****	6.48E-03	*****
207	50.78	6.32E-03	*****	6.33E-03	*****
208	51.02	6.13E-03	*****	6.15E-03	*****
209	51.27	5.98E-03	*****	5.87E-03	*****
210	51.52	5.86E-03	*****	5.71E-03	*****
211	51.76	5.80E-03	*****	5.61E-03	*****
212	52.01	5.70E-03	*****	5.60E-03	*****
213	52.25	5.54E-03	*****	5.57E-03	*****
214	52.50	5.44E-03	*****	5.50E-03	*****
215	52.75	5.39E-03	*****	5.36E-03	*****
216	52.99	5.32E-03	*****	5.29E-03	*****
217	53.24	5.30E-03	*****	5.20E-03	*****
218	53.48	5.29E-03	*****	5.13E-03	*****
219	53.73	5.25E-03	*****	5.07E-03	*****
220	53.98	5.21E-03	*****	5.03E-03	*****
221	54.22	5.20E-03	*****	5.00E-03	*****
222	54.47	5.21E-03	*****	4.97E-03	*****
223	54.71	5.18E-03	*****	4.93E-03	*****
224	54.96	5.15E-03	*****	4.96E-03	*****
225	55.20	5.15E-03	*****	4.96E-03	*****
226	55.45	5.16E-03	*****	5.02E-03	*****
227	55.70	5.16E-03	*****	4.93E-03	*****
228	55.94	5.17E-03	*****	5.01E-03	*****
229	56.19	5.19E-03	*****	4.99E-03	*****
230	56.43	5.19E-03	*****	5.00E-03	*****
231	56.68	5.24E-03	*****	4.95E-03	*****
232	56.93	5.33E-03	*****	4.84E-03	*****
233	57.17	5.27E-03	*****	4.74E-03	*****
234	57.42	5.14E-03	*****	4.61E-03	*****
235	57.66	5.25E-03	*****	4.74E-03	*****
236	57.91	5.46E-03	*****	4.86E-03	*****
237	58.16	5.69E-03	*****	4.94E-03	*****
238	58.40	5.93E-03	*****	5.08E-03	*****
239	58.65	6.11E-03	*****	5.22E-03	*****
240	58.89	6.35E-03	*****	5.28E-03	*****
241	59.14	8.08E-03	*****	4.79E-03	*****
242	59.39	7.45E-03	*****	8.10E-03	*****
243	59.63	6.91E-03	*****	6.89E-03	*****
244	59.88	5.59E-03	*****	6.38E-03	*****
245	60.12	6.10E-03	*****	5.57E-03	*****
246	60.37	5.76E-03	*****	5.27E-03	*****
247	60.61	5.52E-03	*****	5.11E-03	*****
248	60.86	5.16E-03	*****	4.95E-03	*****
249	61.11	4.73E-03	*****	2.27E-03	*****
250	61.35	2.09E-03	*****	2.14E-03	*****
251	61.60	2.00E-03	*****	2.10E-03	*****
252	61.84	1.90E-03	*****	2.04E-03	*****
253	62.09	1.83E-03	*****	2.05E-03	*****
254	62.34	1.79E-03	*****	2.06E-03	*****
255	62.58	1.75E-03	*****	2.05E-03	*****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.72E-03	*****	2.00E-03	*****
257	63.07	1.69E-03	*****	1.96E-03	*****
258	63.32	1.69E-03	*****	1.92E-03	*****
259	63.57	1.67E-03	*****	1.39E-03	*****
260	63.81	1.64E-03	*****	1.86E-03	*****
261	64.06	1.61E-03	*****	1.83E-03	*****
262	64.30	1.61E-03	*****	1.80E-03	*****
263	64.55	1.62E-03	*****	1.78E-03	*****
264	64.79	1.64E-03	*****	1.77E-03	*****
265	65.04	1.62E-03	*****	1.76E-03	*****
266	65.29	1.62E-03	*****	1.77E-03	*****
267	65.53	1.63E-03	*****	1.80E-03	*****
268	65.78	1.63E-03	*****	1.83E-03	*****
269	66.02	1.63E-03	*****	1.93E-03	*****
270	66.27	1.61E-03	*****	1.81E-03	*****
271	66.52	1.60E-03	*****	1.79E-03	*****
272	66.76	1.62E-03	*****	1.78E-03	*****
273	67.01	1.61E-03	*****	1.76E-03	*****
274	67.25	1.57E-03	*****	1.71E-03	*****
275	67.50	1.50E-03	*****	1.64E-03	*****
276	67.75	1.50E-03	*****	1.55E-03	*****
277	67.99	1.54E-03	*****	1.45E-03	*****
278	68.24	1.62E-03	*****	1.43E-03	*****
279	68.48	1.60E-03	*****	1.54E-03	*****
280	68.73	1.46E-03	*****	1.58E-03	*****
281	68.98	1.37E-03	*****	1.44E-03	*****
282	69.22	1.34E-03	*****	1.34E-03	*****
283	69.47	1.34E-03	*****	1.36E-03	*****
284	69.71	1.35E-03	*****	1.32E-03	*****
285	69.96	1.35E-03	*****	1.30E-03	*****
286	70.20	1.31E-03	*****	1.26E-03	*****
287	70.45	1.34E-03	*****	1.20E-03	*****
288	70.70	1.34E-03	*****	1.23E-03	*****
289	70.94	1.26E-03	*****	1.27E-03	*****
290	71.19	1.26E-03	*****	1.16E-03	*****
291	71.43	1.25E-03	*****	1.11E-03	*****
292	71.68	1.22E-03	*****	1.10E-03	*****
293	71.93	1.20E-03	*****	1.07E-03	*****
294	72.17	1.18E-03	*****	1.04E-03	*****
295	72.42	1.14E-03	*****	1.01E-03	*****
296	72.66	1.11E-03	*****	9.61E-04	*****
297	72.91	1.05E-03	*****	9.39E-04	*****
298	73.16	9.86E-04	*****	9.02E-04	*****
299	73.40	9.20E-04	*****	8.33E-04	*****
300	73.65	6.73E-04	*****	6.59E-04	*****
301	73.89	5.92E-04	*****	6.04E-04	*****
302	74.14	5.15E-04	*****	5.48E-04	*****
303	74.38	4.49E-04	*****	4.84E-04	*****
304	74.63	3.86E-04	*****	4.46E-04	*****
305	74.88	3.45E-04	*****	4.12E-04	*****
306	75.12	3.19E-04	*****	3.87E-04	*****

Table A-8 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	3.04E-04	*****	3.65E-04	*****
308	75.61	2.81E-04	*****	3.52E-04	*****
309	75.86	2.66E-04	*****	3.41E-04	*****
310	76.11	2.60E-04	*****	3.27E-04	*****
311	76.35	2.50E-04	*****	3.22E-04	*****
312	76.60	2.48E-04	*****	3.05E-04	*****
313	76.84	2.59E-04	*****	2.94E-04	*****
314	77.09	2.69E-04	*****	2.99E-04	*****
315	77.34	2.69E-04	*****	3.17E-04	*****
316	77.58	2.62E-04	*****	3.12E-04	*****
317	77.83	2.58E-04	*****	2.98E-04	*****
318	78.07	2.50E-04	*****	2.95E-04	*****
319	78.32	2.42E-04	*****	2.92E-04	*****
320	78.57	2.29E-04	*****	2.81E-04	*****
321	78.81	2.15E-04	*****	1.60E-04	*****
322	79.06	2.11E-04	*****	1.49E-04	*****
323	79.30	1.16E-04	*****	1.45E-04	*****
324	79.55	1.13E-04	*****	1.47E-04	*****
325	79.79	1.15E-04	*****	1.43E-04	*****
326	80.04	1.30E-04	*****	1.41E-04	*****
327	80.29	1.50E-04	*****	1.77E-04	*****
328	80.53	1.57E-04	*****	2.24E-04	*****
329	80.78	1.60E-04	*****	3.91E-04	*****
330	81.02	1.66E-04	*****	3.97E-04	*****
331	81.27	1.77E-04	*****	4.14E-04	*****
332	81.52	1.81E-04	*****	4.57E-04	*****
333	81.76	1.80E-04	*****	4.60E-04	*****
334	82.01	1.80E-04	*****	4.49E-04	*****
335	82.25	1.67E-04	*****	4.51E-04	*****
336	82.50	1.47E-04	*****	4.30E-04	*****
337	82.75	1.20E-04	*****	3.82E-04	*****
338	82.99	1.12E-04	*****	3.05E-04	*****
339	83.24	1.18E-04	*****	2.81E-04	*****
340	83.48	1.04E-04	*****	3.22E-04	*****
341	83.73	8.07E-05	*****	3.00E-04	*****
342	83.97	7.12E-05	*****	1.14E-04	*****
343	84.22	5.96E-05	*****	9.39E-05	*****
344	84.47	4.53E-05	*****	7.82E-05	*****
345	84.71	3.41E-05	*****	5.74E-05	*****
346	84.96	2.83E-05	*****	3.94E-05	*****
347	85.20	2.55E-05	*****	3.09E-05	*****
348	85.45	2.41E-05	*****	2.79E-05	*****
349	85.70	2.22E-05	*****	2.48E-05	*****
350	85.94	2.15E-05	*****	2.21E-05	*****
351	86.19	2.06E-05	*****	2.08E-05	*****
352	86.43	2.04E-05	*****	1.99E-05	*****
353	86.68	2.09E-05	*****	1.96E-05	*****
354	86.93	2.18E-05	*****	1.96E-05	*****
355	87.17	2.22E-05	*****	1.87E-05	*****
356	87.42	2.45E-05	*****	1.86E-05	*****
357	87.66	2.55E-05	*****	1.92E-05	*****
358	87.91	2.41E-05	*****	2.11E-05	*****

Table A-9. Axial distribution of ^{134}Cs in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	1.55E-02	0.7	3.42E-02	0.4
2	1.63	1.31E-02	0.7	3.59E-02	0.4
3	1.39	1.33E-02	0.7	3.82E-02	0.4
4	1.14	1.43E-02	0.6	4.16E-02	0.4
5	0.89	1.59E-02	0.6	4.66E-02	0.4
6	0.65	2.76E-02	0.5	9.26E-02	0.3
7	0.40	9.37E-02	0.3	1.20E-01	0.3
8	0.16	1.32E-01	0.4	2.54E-02	0.5
9	0.09	5.32E-02	0.6	5.02E-03	1.5
10	0.34	7.15E-03	1.7	5.25E-03	1.2
11	0.58	3.76E-03	2.5	4.86E-03	1.2
12	0.83	3.22E-03	2.7	4.43E-03	1.2
13	1.07	3.68E-03	2.5	4.49E-03	1.2
14	1.32	3.78E-03	2.5	4.80E-03	1.2
15	1.57	3.62E-03	2.5	4.97E-03	1.2
16	1.81	3.35E-03	2.6	5.29E-03	1.1
17	2.06	3.01E-03	2.8	7.06E-03	0.9
18	2.30	3.26E-03	2.7	1.88E-02	0.6
19	2.55	8.37E-03	1.5	3.36E-02	0.4
20	2.80	2.33E-02	0.9	3.34E-02	0.4
21	3.04	2.03E-02	0.9	2.41E-02	0.5
22	3.29	8.61E-03	1.5	2.12E-02	0.5
23	3.53	5.54E-03	2.0	2.02E-02	0.6
24	3.78	5.52E-03	2.0	2.11E-02	0.6
25	4.02	4.78E-03	2.2	2.52E-02	0.5
26	4.27	4.65E-03	2.3	3.18E-02	0.5
27	4.52	5.93E-03	2.0	4.01E-02	0.4
28	4.76	1.32E-02	1.2	5.35E-02	0.4
29	5.01	3.10E-02	0.8	7.86E-02	0.3
30	5.25	5.10E-02	0.6	1.10E-01	0.4
31	5.50	1.04E-01	0.4	1.93E-01	0.3
32	5.75	2.15E-01	0.3	1.89E-01	0.3
33	5.99	2.09E-01	0.3	9.60E-02	0.5
34	6.24	9.14E-02	0.5	3.60E-02	0.7
35	6.48	2.24E-02	1.0	2.83E-02	0.9
36	6.73	1.70E-02	1.1	3.23E-02	0.8
37	6.98	1.79E-02	1.1	4.24E-02	0.7
38	7.22	1.94E-02	1.0	4.62E-02	0.7
39	7.47	2.18E-02	1.0	5.28E-02	0.6
40	7.71	1.77E-02	1.1	6.25E-02	0.6
41	7.96	2.39E-02	0.9	7.21E-02	0.5
42	8.20	3.46E-02	0.8	1.10E-01	0.4
43	8.45	6.64E-02	0.6	1.73E-01	0.4
44	8.70	1.63E-01	0.4	1.84E-01	0.4
45	8.94	1.73E-01	0.4	1.92E-01	4.1
46	9.19	1.27E-01	0.4	2.00E-01	0.3
47	9.43	7.93E-02	0.5	1.66E-01	0.4

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	6.92E-02	0.6	1.73E-01	0.4
49	9.93	7.80E-02	0.5	1.81E-01	0.4
50	10.17	7.20E-02	0.6	1.82E-01	0.4
51	10.42	7.03E-02	0.6	2.02E-01	0.4
52	10.66	7.64E-02	0.5	1.84E-01	0.4
53	10.91	7.14E-02	0.6	2.11E-01	0.4
54	11.16	9.58E-02	0.5	2.24E-01	0.3
55	11.40	1.09E-01	0.5	2.62E-01	0.3
56	11.65	1.43E-01	0.4	3.65E-01	0.3
57	11.89	1.91E-01	0.4	3.22E-01	0.3
58	12.14	2.09E-01	0.4	3.04E-01	0.3
59	12.39	2.34E-01	0.4	3.07E-01	0.3
60	12.63	2.79E-01	0.3	3.17E-01	0.3
61	12.88	3.07E-01	0.3	3.23E+00	0.3
62	13.12	3.60E-01	0.7	3.93E-01	0.6
63	13.37	4.22E-01	0.6	4.14E-01	0.6
64	13.61	4.35E-01	0.6	4.67E-01	0.6
65	13.86	5.04E-01	0.6	5.17E-01	0.5
66	14.11	5.25E-01	0.5	5.97E-01	0.5
67	14.35	6.10E-01	0.5	6.55E-01	0.5
68	14.60	6.59E-01	0.5	6.88E-01	0.5
69	14.84	7.46E-01	0.5	7.90E-01	0.5
70	15.09	7.29E-01	0.5	6.35E-01	0.5
71	15.34	3.21E-01	0.7	3.44E-01	0.7
72	15.58	2.42E-01	0.8	3.19E-01	0.7
73	15.83	2.29E-01	0.8	3.35E-01	0.7
74	16.07	2.55E-01	0.8	4.15E-01	0.6
75	16.32	3.42E-01	0.7	4.77E-01	0.6
76	16.57	3.64E-01	0.7	5.52E-01	0.5
77	16.81	4.34E-01	0.6	6.84E-01	0.5
78	17.06	5.60E-01	0.5	8.04E-01	0.5
79	17.30	6.39E-01	0.5	1.07E+00	0.4
80	17.55	9.04E-01	0.4	1.30E+00	0.4
81	17.79	1.10E+00	0.4	1.59E+00	0.3
82	18.04	1.47E+00	0.4	1.96E+00	0.3
83	18.29	1.55E+00	0.3	1.73E+00	0.3
84	18.53	1.57E+00	0.3	1.81E+00	0.3
85	18.78	1.60E+00	0.3	1.99E+00	0.3
86	19.02	1.75E+00	0.3	2.06E+00	0.3
87	19.27	1.89E+00	0.3	2.24E+00	0.3
88	19.52	2.15E+00	0.3	2.49E+00	0.3
89	19.76	2.18E+00	0.3	2.60E+00	0.3
90	20.01	2.30E+00	0.3	2.81E+00	0.3
91	20.25	2.53E+00	0.3	3.05E+00	0.3
92	20.50	2.51E+00	0.3	2.98E+00	0.3
93	20.75	2.78E+00	0.3	3.06E+00	0.3
94	20.99	3.35E+00	0.3	3.81E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	3.37E+00	0.3	3.44E+00	0.3
96	21.48	2.84E+00	0.3	2.69E+00	0.3
97	21.73	2.89E+00	0.3	2.68E+00	0.3
98	21.98	3.11E+00	0.3	2.88E+00	0.3
99	22.22	3.23E+00	0.3	3.12E+00	0.3
100	22.47	3.38E+00	0.3	3.13E+00	0.3
101	22.71	3.67E+00	0.3	3.35E+00	0.3
102	22.96	3.60E+00	0.3	3.22E+00	0.3
103	23.20	3.71E+00	0.3	3.17E+00	0.3
104	23.45	3.94E+00	0.3	3.38E+00	0.3
105	23.70	4.25E+00	0.3	3.56E+00	0.3
106	23.94	4.96E+00	0.3	4.25E+00	0.3
107	24.19	4.93E+00	0.3	4.57E+00	0.3
108	24.43	4.16E+00	0.3	4.00E+00	0.3
109	24.68	4.16E+00	0.3	3.59E+00	0.3
110	24.93	4.13E+00	0.3	3.43E+00	0.3
111	25.17	4.20E+00	0.3	3.75E+00	0.3
112	25.42	4.28E+00	0.3	3.73E+00	0.3
113	25.66	4.47E+00	0.3	3.69E+00	0.3
114	25.91	4.59E+00	0.3	3.90E+00	0.3
115	26.16	4.58E+00	0.3	3.47E+00	0.3
116	26.40	4.52E+00	0.3	3.55E+00	0.3
117	26.65	4.54E+00	0.3	3.62E+00	0.3
118	26.89	4.38E+00	0.3	3.62E+00	0.3
119	27.14	4.50E+00	0.3	4.62E+00	0.3
120	27.39	4.26E+00	0.3	4.43E+00	0.3
121	27.63	4.22E+00	0.3	3.37E+00	0.3
122	27.88	4.36E+00	0.3	3.25E+00	0.3
123	28.12	4.31E+00	0.3	3.01E+00	0.3
124	28.37	4.47E+00	0.3	3.19E+00	0.3
125	28.61	4.35E+00	0.3	3.09E+00	0.3
126	28.86	4.30E+00	0.3	3.02E+00	0.3
127	29.11	4.67E+00	0.3	3.26E+00	0.3
128	29.35	4.33E+00	0.3	3.02E+00	0.3
129	29.60	4.52E+00	0.3	3.22E+00	0.3
130	29.84	4.77E+00	0.3	3.83E+00	0.3
131	30.09	1.93E+00	0.4	1.83E-01	1.3
132	30.34	4.95E+00	0.3	4.25E+00	0.3
133	30.58	4.31E+00	0.3	4.83E+00	0.3
134	30.83	4.07E+00	0.3	4.76E+00	0.3
135	31.07	4.45E+00	0.3	4.87E+00	0.3
136	31.32	4.79E+00	0.3	4.85E+00	0.3
137	31.57	4.80E+00	0.3	4.69E+00	0.3
138	31.81	5.31E+00	0.3	4.59E+00	0.3
139	32.06	5.26E+00	0.3	4.62E+00	0.3
140	32.30	5.39E+00	0.3	4.63E+00	0.3
141	32.55	5.44E+00	0.3	4.32E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	5.29E+00	0.3	4.61E+00	0.3
143	33.04	5.38E+00	0.3	4.63E+00	0.3
144	33.29	5.98E+00	0.3	4.98E+00	0.3
145	33.53	5.62E+00	0.3	4.65E+00	0.3
146	33.78	5.64E+00	0.3	4.65E+00	0.3
147	34.02	5.48E+00	0.3	4.36E+00	0.3
148	34.27	5.34E+00	0.3	4.36E+00	0.3
149	34.52	5.17E+00	0.3	4.20E+00	0.3
150	34.76	4.69E+00	0.3	4.08E+00	0.3
151	35.01	4.87E+00	0.3	4.11E+00	0.3
152	35.25	4.64E+00	0.3	4.10E+00	0.3
153	35.50	4.50E+00	0.3	4.06E+00	0.3
154	35.75	4.49E+00	0.3	4.07E+00	0.3
155	35.99	4.39E+00	0.3	4.13E+00	0.3
156	36.24	5.02E+00	0.3	4.57E+00	0.3
157	36.48	5.59E+00	0.3	5.13E+00	0.3
158	36.73	5.09E+00	0.3	4.65E+00	0.3
159	36.98	5.08E+00	0.3	4.82E+00	0.3
160	37.22	4.68E+00	0.3	4.56E+00	0.3
161	37.47	4.63E+00	0.3	4.44E+00	0.3
162	37.71	4.68E+00	0.3	4.47E+00	0.3
163	37.96	4.42E+00	0.3	4.37E+00	0.3
164	38.20	4.41E+00	0.3	4.03E+00	0.3
165	38.45	4.48E+00	0.3	4.11E+00	0.3
166	38.70	4.38E+00	0.3	4.11E+00	0.3
167	38.94	4.21E+00	0.3	3.96E+00	0.3
168	39.19	4.29E+00	0.3	3.89E+00	0.3
169	39.43	5.23E+00	0.3	4.66E+00	0.3
170	39.68	5.01E+00	0.3	4.77E+00	0.3
171	39.93	5.04E+00	0.5	4.50E+00	0.3
172	40.17	4.86E+00	0.3	4.49E+00	0.3
173	40.42	5.21E+00	0.3	4.44E+00	0.3
174	40.66	4.81E+00	0.3	4.30E+00	0.3
175	40.91	4.98E+00	0.3	4.40E+00	0.3
176	41.16	4.68E+00	0.3	4.10E+00	0.3
177	41.40	4.53E+00	0.3	3.96E+00	0.3
178	41.65	4.49E+00	0.3	4.02E+00	0.3
179	41.89	4.49E+00	0.3	4.00E+00	0.3
180	42.14	4.37E+00	0.3	4.36E+00	0.3
181	42.39	4.65E+00	0.3	5.16E+00	0.3
182	42.63	5.81E+00	0.3	4.69E+00	0.3
183	42.88	5.74E+00	0.3	4.46E+00	0.3
184	43.12	5.52E+00	0.3	4.39E+00	0.3
185	43.37	5.57E+00	0.3	4.33E+00	0.3
186	43.61	5.58E+00	0.3	4.38E+00	0.3
187	43.86	5.43E+00	0.3	4.29E+00	0.3
188	44.11	5.41E+00	0.3	4.51E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	5.54E+00	0.3	4.25E+00	0.3
190	44.60	5.29E+00	0.3	4.21E+00	0.3
191	44.84	5.30E+00	0.3	4.18E+00	0.3
192	45.09	5.13E+00	0.3	3.97E+00	0.3
193	45.34	5.26E+00	0.3	5.05E+00	0.3
194	45.58	6.18E+00	0.3	5.32E+00	0.3
195	45.83	5.94E+00	0.3	4.45E+00	0.3
196	46.07	5.83E+00	0.3	4.49E+00	0.3
197	46.32	5.69E+00	0.3	4.50E+00	0.3
198	46.57	5.73E+00	0.3	4.61E+00	0.3
199	46.81	5.86E+00	0.3	4.61E+00	0.3
200	47.06	5.75E+00	0.3	4.52E+00	0.3
201	47.30	5.76E+00	0.3	4.51E+00	0.3
202	47.55	5.48E+00	0.3	4.30E+00	0.3
203	47.79	5.06E+00	0.3	4.23E+00	0.3
204	48.04	4.72E+00	0.3	3.95E+00	0.3
205	48.29	4.44E+00	0.3	4.49E+00	0.3
206	48.53	5.41E+00	0.3	5.23E+00	0.3
207	48.78	6.08E+00	0.3	4.52E+00	0.3
208	49.02	5.45E+00	0.3	4.30E+00	0.3
209	49.27	5.44E+00	0.3	4.41E+00	0.3
210	49.52	5.39E+00	0.3	4.24E+00	0.2
211	49.76	5.42E+00	0.3	3.87E+00	0.3
212	50.01	5.30E+00	0.3	4.01E+00	0.3
213	50.25	4.97E+00	0.3	3.70E+00	0.3
214	50.50	4.81E+00	0.3	3.60E+00	0.3
215	50.75	4.76E+00	0.3	3.39E+00	0.3
216	50.99	4.22E+00	0.3	3.08E+00	0.3
217	51.24	3.95E+00	0.3	3.36E+00	0.3
218	51.48	4.25E+00	0.3	4.21E+00	0.3
219	51.73	5.29E+00	0.3	3.52E+00	0.3
220	51.98	4.63E+00	0.3	3.21E+00	0.3
221	52.22	4.17E+00	0.3	3.15E+00	0.3
222	52.47	4.37E+00	0.3	3.24E+00	0.3
223	52.71	4.17E+00	0.3	3.32E+00	0.3
224	52.96	4.00E+00	0.3	3.21E+00	0.3
225	53.20	3.95E+00	0.3	3.21E+00	0.3
226	53.45	3.91E+00	0.3	3.02E+00	0.3
227	53.70	3.62E+00	0.3	3.13E+00	0.3
228	53.94	3.57E+00	0.2	2.84E+00	0.3
229	54.19	3.19E+00	0.3	2.76E+00	0.3
230	54.43	3.09E+00	0.3	3.41E+00	0.3
231	54.68	3.77E+00	0.3	3.74E+00	0.3
232	54.93	4.13E+00	0.3	3.77E+00	0.3
233	55.17	4.24E+00	0.3	3.71E+00	0.3
234	55.42	4.08E+00	0.3	3.52E+00	0.3
235	55.66	4.10E+00	0.2	3.69E+00	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	4.31E+00	0.3	3.51E+00	0.3
237	56.16	3.94E+00	0.3	3.63E+00	0.3
238	56.40	4.00E+00	0.3	3.57E+00	0.3
239	56.65	3.89E+00	0.2	3.38E+00	0.3
240	56.89	3.57E+00	0.3	3.28E+00	0.3
241	57.14	3.24E+00	0.3	3.04E+00	0.3
242	57.39	3.15E+00	0.3	4.25E+00	0.3
243	57.63	3.65E+00	0.3	4.51E+00	0.3
244	57.88	3.64E+00	0.3	4.29E+00	0.3
245	58.12	3.77E+00	0.2	4.44E+00	0.3
246	58.37	4.09E+00	0.3	4.42E+00	0.3
247	58.61	4.03E+00	0.3	4.22E+00	0.3
248	58.86	3.77E+00	0.3	4.20E+00	0.3
249	59.11	3.79E+00	0.2	3.91E+00	0.3
250	59.35	3.52E+00	0.3	3.93E+00	0.3
251	59.60	3.17E+00	0.3	3.66E+00	0.3
252	59.84	2.89E+00	0.3	3.19E+00	0.3
253	60.09	3.16E-01	0.8	3.65E-01	0.7
254	60.34	2.86E+00	0.3	3.49E+00	0.3
255	60.58	3.17E+00	0.3	3.96E+00	0.3
256	60.83	3.47E+00	0.3	4.22E+00	0.2
257	61.07	3.94E+00	0.3	4.23E+00	0.3
258	61.32	3.94E+00	0.2	3.70E+00	0.3
259	61.57	3.50E+00	0.3	3.41E+00	0.3
260	61.81	3.48E+00	0.3	3.20E+00	0.2
261	62.06	3.02E+00	0.3	3.22E-01	0.3
262	62.30	2.48E+00	0.3	2.94E-01	0.3
263	62.55	2.06E+00	0.3	2.43E-01	0.3
264	62.79	1.66E+00	0.4	2.40E-01	0.3
265	63.04	2.00E+00	0.3	3.03E-01	0.3
266	63.29	2.04E+00	0.3	3.53E-01	0.3
267	63.53	1.83E+00	0.3	3.87E-01	0.3
268	63.78	1.83E+00	0.3	3.97E-01	0.3
269	64.02	1.56E+00	0.4	3.61E-01	0.3
270	64.27	1.56E+00	0.4	3.55E-01	0.3
271	64.52	1.47E+00	0.4	3.13E-01	0.3
272	64.76	1.17E+00	0.4	2.74E-01	0.3
273	65.01	1.16E+00	0.4	2.41E-01	0.3
274	65.25	9.59E-01	0.4	1.92E-01	0.4
275	65.50	8.92E-01	0.5	1.65E-01	0.4
276	65.75	9.00E-01	0.4	1.41E-01	0.4
277	65.99	1.08E+00	0.4	1.64E-01	0.4
278	66.24	1.43E+00	0.4	2.04E-01	0.3
279	66.48	1.59E+00	0.3	2.27E-01	0.3
280	66.73	1.64E+00	0.3	2.39E-01	0.3
281	66.98	1.67E+00	0.3	2.42E-01	0.3
282	67.22	1.41E+00	0.4	2.28E-01	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	1.39E+00	0.4	2.24E-01	0.3
284	67.71	1.22E+00	0.4	2.05E-01	0.3
285	67.96	1.06E+00	0.4	1.93E-01	0.3
286	68.20	1.02E+00	0.4	1.87E-01	0.3
287	68.45	8.47E-01	0.4	1.62E-01	0.4
288	68.70	8.07E-01	0.5	1.52E-01	0.4
289	68.94	8.86E-01	0.4	1.65E-01	0.4
290	69.19	9.22E-01	0.4	1.78E-01	0.4
291	69.43	1.02E+00	0.4	1.60E-01	0.4
292	69.68	1.17E+00	0.4	1.50E-01	0.4
293	69.93	1.02E+00	0.4	1.44E-01	0.4
294	70.17	1.00E+00	0.4	1.45E-01	0.4
295	70.42	8.68E-01	0.4	1.38E-01	0.4
296	70.66	8.46E-01	0.4	1.31E-01	0.4
297	70.91	8.42E-01	0.4	1.31E-01	0.4
298	71.16	7.06E-01	0.5	1.25E-01	0.4
299	71.40	6.42E-01	0.5	1.06E-01	0.4
300	71.65	5.49E-01	0.5	1.02E-01	0.4
301	71.89	5.14E-01	0.5	1.06E-01	0.4
302	72.14	6.11E-01	0.5	1.07E-01	0.4
303	72.38	5.57E-01	0.4	1.22E-01	0.4
304	72.63	1.95E-02	9.9	1.23E-01	0.4
305	72.88	8.79E-01	0.4	1.19E-01	0.4
306	73.12	1.17E+00	0.4	1.06E-01	0.4
307	73.37	1.25E+00	0.4	9.85E-02	0.4
308	73.61	1.00E+00	0.4	8.68E-02	0.5
309	73.86	9.39E-01	0.4	7.44E-02	0.5
310	74.11	7.53E-01	0.5	6.58E-02	0.5
311	74.35	6.06E-01	0.5	5.88E-02	0.6
312	74.60	5.13E-01	0.6	1.32E-02	0.6
313	74.84	3.72E-01	0.6	1.26E-02	0.6
314	75.09	3.15E-01	0.7	1.32E-02	0.6
315	75.34	2.91E-01	0.4	1.69E-02	0.5
316	75.58	2.80E-01	0.3	1.63E-02	0.5
317	75.83	4.08E-01	0.3	1.15E-01	0.3
318	76.07	4.19E-01	0.3	9.61E-02	0.3
319	76.32	3.15E-01	0.3	8.57E-02	0.3
320	76.57	2.71E-01	0.3	8.54E-02	0.3
321	76.81	2.42E-01	0.3	7.18E-02	0.3
322	77.06	2.28E-01	0.3	6.72E-02	0.3
323	77.30	2.17E-01	0.4	6.55E-02	0.3
324	77.55	1.92E-01	0.4	6.42E-02	0.3
325	77.79	2.04E-01	0.4	5.96E-02	0.3
326	78.04	2.02E-01	0.4	5.29E-02	0.4
327	78.29	1.84E-01	0.4	4.96E-02	0.4
328	78.53	2.01E-01	0.4	5.56E-02	0.4
329	78.78	2.38E-01	0.3	5.93E-02	0.3

Table A-9 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	3.21E-01	0.3	6.35E-02	0.3
331	79.27	2.64E-01	0.3	5.74E-02	0.4
332	79.52	1.92E-01	0.4	5.38E-02	0.4
333	79.76	1.87E-01	0.4	1.28E-02	0.4
334	80.01	1.54E-01	0.4	1.14E-02	0.4
335	80.25	1.45E-01	0.4	1.03E-02	0.4
336	80.50	1.45E-01	0.4	8.84E-03	0.4
337	80.75	1.31E-01	0.4	6.91E-03	0.5
338	80.99	1.23E-01	0.4	6.06E-03	0.5
339	81.24	1.03E-01	0.4	5.10E-03	0.6
340	81.48	1.07E-01	0.4	5.29E-03	0.5
341	81.73	1.30E-01	0.4	3.43E-02	0.4
342	81.97	1.33E-01	0.4	3.70E-02	0.4
343	82.22	1.47E-01	0.4	3.38E-02	0.4
344	82.47	1.29E-01	0.4	3.26E-02	0.4
345	82.71	9.82E-02	0.5	3.12E-02	0.4
346	82.96	9.99E-02	0.4	2.81E-02	0.4
347	83.20	8.62E-02	0.5	2.51E-02	0.5
348	83.45	7.29E-02	0.5	2.08E-02	0.5
349	83.70	6.81E-02	0.5	1.51E-02	0.6
350	83.94	4.53E-02	0.7	1.21E-02	0.7
351	84.19	4.27E-02	0.4	3.92E-02	0.4
352	84.43	4.59E-02	0.4	2.91E-02	0.5
353	84.68	4.36E-02	0.4	3.90E-02	0.4
354	84.93	4.54E-02	0.4	1.08E-02	0.4
355	85.17	5.69E-02	0.4	7.34E-03	0.5
356	85.42	3.78E-02	0.4	4.93E-03	0.6
357	85.66	2.37E-02	0.5	2.72E-03	0.8
358	85.91	1.58E-02	0.6	1.54E-03	1.1
359	86.16	1.00E-02	0.8	9.58E-04	1.3
360	86.40	5.95E-03	1.0	7.16E-04	1.5
361	86.65	3.68E-03	1.3	7.07E-04	1.6
362	86.89	2.78E-03	1.5	7.41E-04	1.5
363	87.14	2.54E-03	1.6	8.74E-04	1.4
364	87.38	3.02E-03	1.4	1.18E-03	1.2
365	87.63	3.61E-03	1.3	1.25E-03	1.2
366	87.88	4.51E-03	1.1	1.11E-03	1.3
367	88.12	4.60E-03	1.1	1.00E-03	1.4
368	88.37	4.33E-03	1.2	1.02E-03	1.5
369	88.61	4.17E-03	1.3	1.02E-03	1.6
370	88.86	4.07E-03	1.4	8.32E-04	2.0
371	89.11	3.98E-03	1.6	7.60E-04	2.4
372	89.35	3.59E-03	1.8	7.19E-04	2.7
373	89.60	3.00E-03	2.2	5.57E-04	3.4
374	89.84	2.83E-03	2.6	3.97E-04	5.1

Table A-10. Axial distribution of ^{134}Cs in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.55E-03	1.4	6.26E-02	0.4
2	0.37	4.89E-02	0.3	4.01E-02	0.4
3	0.61	3.34E-02	0.4	3.72E-02	0.4
4	0.86	3.15E-02	0.4	4.10E-02	0.4
5	1.11	3.20E-02	0.4	4.92E-02	0.3
6	1.35	4.07E-02	0.4	6.17E-02	0.3
7	1.60	5.17E-02	0.3	7.23E-02	0.3
8	1.84	6.03E-02	0.3	8.19E-02	0.3
9	2.09	6.86E-02	0.3	6.59E-02	0.5
10	2.34	5.24E-02	0.5	7.33E-02	0.4
11	2.58	5.74E-02	0.5	7.77E-02	0.4
12	2.83	6.17E-02	0.5	8.58E-02	0.4
13	3.07	6.60E-02	0.5	9.57E-02	0.4
14	3.32	7.39E-02	0.4	1.00E-01	0.4
15	3.57	8.03E-02	0.4	1.00E-01	0.4
16	3.81	8.81E-02	0.4	1.03E-01	0.4
17	4.06	1.00E-01	0.4	1.22E-01	0.4
18	4.30	1.15E-01	0.4	1.34E-01	0.4
19	4.55	1.25E-01	0.4	1.47E-01	0.3
20	4.80	1.36E-01	0.3	1.59E-01	0.3
21	5.04	1.47E-01	0.3	1.68E-01	0.3
22	5.29	1.49E-01	0.3	1.83E-01	0.3
23	5.53	1.54E-01	0.3	2.03E-01	0.3
24	5.78	1.71E-01	0.3	2.24E-01	0.3
25	6.02	1.88E-01	0.3	2.47E-01	0.3
26	6.27	2.13E-01	0.3	2.39E-01	0.3
27	6.52	1.99E-01	0.3	2.39E-01	0.3
28	6.76	1.94E-01	0.3	2.53E-01	0.3
29	7.01	2.09E-01	0.3	2.75E-01	0.3
30	7.25	2.29E-01	0.3	2.90E-01	0.3
31	7.50	2.42E-01	0.3	2.91E-01	0.3
32	7.75	2.37E-01	0.3	2.76E-01	0.6
33	7.99	2.35E-01	0.3	2.94E-01	0.6
34	8.24	2.37E-01	0.3	3.20E-01	0.6
35	8.48	2.51E-01	0.3	3.48E-01	0.5
36	8.73	2.70E-01	0.3	3.58E-01	0.5
37	8.98	2.31E-01	0.6	3.71E-01	0.5
38	9.22	2.33E-01	0.6	3.80E-01	0.5
39	9.47	2.37E-01	0.6	3.69E-01	0.5
40	9.71	2.08E-01	0.7	3.78E-01	0.5
41	9.96	2.29E-01	0.6	4.08E-01	0.5
42	10.20	2.61E-01	0.6	4.22E-01	0.5
43	10.45	3.02E-01	0.6	4.61E-01	0.5
44	10.70	3.51E-01	0.5	5.01E-01	0.5
45	10.94	3.50E-01	0.5	5.20E-01	0.5
46	11.19	3.50E-01	0.5	5.24E-01	0.5
47	11.43	3.49E-01	0.5	5.41E-01	0.4
48	11.68	3.37E-01	0.5	5.78E-01	0.4
49	11.93	3.13E-01	0.6	5.95E-01	0.4
50	12.17	2.89E-01	0.6	6.61E-01	0.4
51	12.42	2.64E-01	0.6	6.52E-01	0.4

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.35E-01	0.6	6.62E-01	0.4
53	12.91	2.44E-01	0.6	6.49E-01	0.4
54	13.16	2.47E-01	0.6	6.24E-01	0.4
55	13.40	2.44E-01	0.6	5.39E-01	0.4
56	13.65	2.47E-01	0.6	5.88E-01	0.4
57	13.89	2.40E-01	0.6	6.02E-01	0.4
58	14.14	2.37E-01	0.6	5.71E-01	0.4
59	14.39	2.58E-01	0.6	5.72E-01	0.4
60	14.63	2.72E-01	0.6	5.74E-01	0.4
61	14.83	2.90E-01	0.6	5.59E-01	0.4
62	15.12	2.95E-01	0.6	5.56E-01	0.4
63	15.37	2.95E-01	0.6	5.55E-01	0.4
64	15.61	2.90E-01	0.6	5.33E-01	0.5
65	15.86	2.66E-01	0.6	5.33E-01	0.5
66	16.11	2.51E-01	0.6	5.40E-01	0.5
67	16.35	2.85E-01	0.6	5.73E-01	0.4
68	16.60	3.25E-01	0.6	6.14E-01	0.4
69	16.84	3.61E-01	0.5	5.96E-01	0.4
70	17.09	4.12E-01	0.5	5.96E-01	0.4
71	17.34	4.23E-01	0.5	6.30E-01	0.4
72	17.58	4.55E-01	0.5	6.70E-01	0.4
73	17.83	4.56E-01	0.5	7.10E-01	0.4
74	18.07	4.69E-01	0.5	7.87E-01	0.4
75	18.32	6.13E-01	0.4	8.76E-01	0.4
76	18.57	7.91E-01	0.4	8.65E-01	0.4
77	18.81	7.90E-01	0.4	8.69E-01	0.4
78	19.06	8.00E-01	0.4	8.66E-01	0.4
79	19.30	7.90E-01	0.4	8.42E-01	0.4
80	19.55	7.66E-01	0.4	8.51E-01	0.4
81	19.79	7.93E-01	0.4	8.91E-01	0.4
82	20.04	8.83E-01	0.4	9.35E-01	0.4
83	20.29	9.67E-01	0.4	1.04E+00	0.3
84	20.53	1.05E+00	0.3	1.10E+00	0.3
85	20.76	1.12E+00	0.3	1.16E+00	0.3
86	21.02	1.18E+00	0.3	1.23E+00	0.3
87	21.27	1.25E+00	0.3	1.29E+00	0.3
88	21.52	1.38E+00	0.3	1.31E+00	0.3
89	21.76	1.45E+00	0.3	1.36E+00	0.3
90	22.01	1.43E+00	0.3	1.45E+00	0.3
91	22.25	1.53E+00	0.3	1.55E+00	0.3
92	22.50	1.61E+00	0.3	1.57E+00	0.3
93	22.75	1.64E+00	0.3	1.61E+00	0.3
94	22.99	1.68E+00	0.3	1.63E+00	0.3
95	23.24	1.62E+00	0.3	1.67E+00	0.3
96	23.48	1.63E+00	0.3	1.72E+00	0.3
97	23.73	1.63E+00	0.3	1.64E+00	0.3
98	23.98	1.60E+00	0.3	1.59E+00	0.3
99	24.22	1.60E+00	0.3	1.55E+00	0.3
100	24.47	1.67E+00	0.3	1.57E+00	0.3
101	24.71	1.70E+00	0.3	1.63E+00	0.3
102	24.96	1.77E+00	0.3	1.82E+00	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.94E+00	0.3	2.01E+00	0.3
104	25.45	2.11E+00	0.3	2.03E+00	0.3
105	25.70	2.16E+00	0.3	2.03E+00	0.3
106	25.94	2.15E+00	0.3	1.95E+00	0.3
107	26.19	2.09E+00	0.3	1.77E+00	0.3
108	26.43	1.95E+00	0.3	1.68E+00	0.3
109	26.68	1.83E+00	0.3	1.67E+00	0.3
110	26.93	1.80E+00	0.3	1.65E+00	0.3
111	27.17	1.79E+00	0.3	1.69E+00	0.3
112	27.42	1.83E+00	0.3	1.75E+00	0.3
113	27.66	1.85E+00	0.3	1.73E+00	0.3
114	27.91	1.84E+00	0.3	1.76E+00	0.3
115	28.16	1.77E+00	0.3	1.69E+00	0.3
116	28.40	1.66E+00	0.3	1.64E+00	0.3
117	28.65	1.53E+00	0.3	1.52E+00	0.3
118	28.89	1.53E+00	0.3	1.43E+00	0.3
119	29.14	1.45E+00	0.3	1.37E+00	0.3
120	29.39	1.42E+00	0.3	1.32E+00	0.3
121	29.63	1.39E+00	0.3	1.32E+00	0.3
122	29.88	0.15E-01	0.4	2.05E-03	10.6
123	30.12	1.93E+00	0.3	4.87E-01	0.5
124	30.37	1.45E+00	0.3	2.49E+00	0.3
125	30.61	1.35E+00	0.3	1.88E+00	0.3
126	30.86	1.44E+00	0.3	1.52E+00	0.3
127	31.11	1.59E+00	0.3	1.27E+00	0.3
128	31.35	1.56E+00	0.3	1.77E+00	0.3
129	31.60	1.49E+00	0.3	1.69E+00	0.3
130	31.84	1.42E+00	0.3	1.59E+00	0.3
131	32.09	1.42E+00	0.3	1.51E+00	0.3
132	32.34	1.51E+00	0.3	1.50E+00	0.3
133	32.58	1.58E+00	0.3	1.55E+00	0.3
134	32.83	1.59E+00	0.3	1.52E+00	0.3
135	33.07	1.56E+00	0.3	1.44E+00	0.3
136	33.32	1.52E+00	0.3	1.39E+00	0.3
137	33.57	1.48E+00	0.3	1.36E+00	0.3
138	33.81	1.46E+00	0.3	1.37E+00	0.3
139	34.06	1.43E+00	0.3	1.34E+00	0.3
140	34.30	1.41E+00	0.3	1.33E+00	0.3
141	34.55	1.38E+00	0.3	1.36E+00	0.3
142	34.79	1.38E+00	0.3	1.36E+00	0.3
143	35.04	1.34E+00	0.3	1.35E+00	0.3
144	35.29	1.34E+00	0.3	1.34E+00	0.3
145	35.53	1.35E+00	0.3	1.35E+00	0.3
146	35.78	1.35E+00	0.3	1.34E+00	0.3
147	36.02	1.35E+00	0.3	1.36E+00	0.3
148	36.27	1.36E+00	0.3	1.36E+00	0.3
149	36.52	1.38E+00	0.3	1.37E+00	0.3
150	36.76	1.42E+00	0.3	1.38E+00	0.3
151	37.01	1.41E+00	0.3	1.40E+00	0.3
152	37.25	1.41E+00	0.3	1.40E+00	0.3
153	37.50	1.38E+00	0.3	1.40E+00	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	1.34E+00	0.3	1.37E+00	0.3
155	37.99	1.34E+00	0.3	1.36E+00	0.3
156	38.24	1.33E+00	0.3	1.35E+00	0.3
157	38.46	1.31E+00	0.3	1.37E+00	0.3
158	38.73	1.29E+00	0.3	1.37E+00	0.3
159	38.95	1.26E+00	0.3	1.35E+00	0.3
160	39.22	1.23E+00	0.3	1.33E+00	0.3
161	39.47	1.18E+00	0.3	1.32E+00	0.3
162	39.71	1.18E+00	0.3	1.29E+00	0.3
163	39.96	1.15E+00	0.3	1.28E+00	0.3
164	40.20	1.11E+00	0.3	1.25E+00	0.3
165	40.45	1.06E+00	0.3	1.19E+00	0.3
166	40.70	9.90E-01	0.3	1.14E+00	0.3
167	40.94	9.23E-01	0.4	1.05E+00	0.3
168	41.19	8.92E-01	0.4	9.87E-01	0.3
169	41.43	8.66E-01	0.4	9.61E-01	0.3
170	41.68	8.63E-01	0.4	9.36E-01	0.3
171	41.93	8.58E-01	0.4	9.35E-01	0.4
172	42.17	8.55E-01	0.4	9.27E-01	0.4
173	42.42	8.69E-01	0.4	9.30E-01	0.4
174	42.66	8.77E-01	0.4	9.42E-01	0.3
175	42.91	8.61E-01	0.4	9.26E-01	0.4
176	43.16	8.70E-01	0.4	9.36E-01	0.3
177	43.40	8.82E-01	0.4	9.37E-01	0.4
178	43.65	8.94E-01	0.4	9.40E-01	0.3
179	43.89	9.15E-01	0.4	9.50E-01	0.3
180	44.14	9.25E-01	0.4	9.71E-01	0.3
181	44.39	9.20E-01	0.4	9.83E-01	0.3
182	44.63	9.05E-01	0.4	9.73E-01	0.3
183	44.88	8.81E-01	0.4	9.55E-01	0.3
184	45.12	8.59E-01	0.4	9.53E-01	0.3
185	45.37	8.40E-01	0.4	9.35E-01	0.4
186	45.61	8.30E-01	0.4	9.31E-01	0.3
187	45.86	8.41E-01	0.4	9.26E-01	0.3
188	46.11	8.22E-01	0.4	9.16E-01	0.4
189	46.35	7.67E-01	0.4	8.80E-01	0.4
190	46.60	7.25E-01	0.4	8.29E-01	0.4
191	46.84	6.72E-01	0.4	7.74E-01	0.4
192	47.09	6.23E-01	0.4	7.23E-01	0.4
193	47.34	5.85E-01	0.4	6.72E-01	0.4
194	47.58	5.55E-01	0.4	6.39E-01	0.4
195	47.83	5.29E-01	0.4	6.06E-01	0.4
196	48.07	5.12E-01	0.4	5.80E-01	0.4
197	48.32	4.91E-01	0.5	5.43E-01	0.4
198	48.57	4.75E-01	0.5	5.15E-01	0.4
199	48.81	4.79E-01	0.5	5.02E-01	0.4
200	49.06	4.69E-01	0.5	4.96E-01	0.5
201	49.30	4.62E-01	0.5	4.95E-01	0.4
202	49.55	4.48E-01	0.5	4.86E-01	0.5
203	49.79	4.49E-01	0.5	4.80E-01	0.5
204	50.04	4.42E-01	0.5	4.62E-01	0.5

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	4.41E-01	0.5	4.55E-01	0.5
206	50.53	4.38E-01	0.5	4.46E-01	0.5
207	50.78	4.22E-01	0.5	4.21E-01	0.5
208	51.02	3.98E-01	0.5	3.94E-01	0.5
209	51.27	3.75E-01	0.5	3.63E-01	0.5
210	51.52	3.65E-01	0.5	3.44E-01	0.5
211	51.76	3.68E-01	0.5	3.34E-01	0.5
212	52.01	3.55E-01	0.5	3.32E-01	0.5
213	52.25	3.36E-01	0.5	3.29E-01	0.5
214	52.50	3.25E-01	0.5	3.18E-01	0.5
215	52.75	3.18E-01	0.5	3.05E-01	0.6
216	52.99	3.12E-01	0.5	2.95E-01	0.6
217	53.24	3.18E-01	0.5	2.85E-01	0.6
218	53.48	3.11E-01	0.5	2.86E-01	0.6
219	53.73	3.10E-01	0.5	2.79E-01	0.6
220	53.98	3.08E-01	0.5	2.74E-01	0.6
221	54.22	3.09E-01	0.5	2.64E-01	0.6
222	54.47	3.07E-01	0.5	2.62E-01	0.6
223	54.71	3.05E-01	0.5	2.63E-01	0.6
224	54.96	3.08E-01	0.5	2.65E-01	0.6
225	55.20	3.04E-01	0.6	2.67E-01	0.6
226	55.45	3.07E-01	0.5	2.63E-01	0.6
227	55.70	3.07E-01	0.6	2.71E-01	0.6
228	55.94	3.08E-01	0.6	2.65E-01	0.6
229	56.19	3.08E-01	0.5	2.61E-01	0.6
230	56.43	3.11E-01	0.5	2.63E-01	0.6
231	56.68	3.16E-01	0.5	2.61E-01	0.6
232	56.93	3.25E-01	0.5	2.49E-01	0.6
233	57.17	3.21E-01	0.5	2.37E-01	0.6
234	57.42	3.07E-01	0.5	2.24E-01	0.6
235	57.66	3.16E-01	0.5	2.32E-01	0.6
236	57.91	3.36E-01	0.5	2.41E-01	0.6
237	58.16	3.48E-01	0.5	2.51E-01	0.6
238	58.40	3.57E-01	0.5	2.49E-01	0.6
239	58.65	3.72E-01	0.5	2.54E-01	0.6
240	58.89	4.11E-01	0.5	2.56E-01	0.6
241	59.14	7.31E-01	0.4	2.54E-01	0.6
242	59.39	6.33E-01	0.4	6.91E-01	0.4
243	59.63	5.36E-01	0.4	4.93E-01	0.5
244	59.88	3.29E-01	0.5	4.13E-01	0.5
245	60.12	4.21E-01	0.5	3.16E-01	0.6
246	60.37	3.92E-01	0.5	2.73E-01	0.6
247	60.61	3.53E-01	0.5	2.59E-01	0.6
248	60.86	3.02E-01	0.6	2.45E-01	0.6
249	61.11	2.58E-01	0.6	2.31E-01	0.3
250	61.35	2.34E-01	0.3	2.14E-01	0.3
251	61.60	2.16E-01	0.3	2.05E-01	0.3
252	61.84	1.98E-01	0.3	1.98E-01	0.3
253	62.09	1.87E-01	0.3	2.00E-01	0.3
254	62.34	1.81E-01	0.3	2.02E-01	0.3
255	62.58	1.73E-01	0.3	2.05E-01	0.3

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.67E-01	0.3	1.93E-01	0.3
257	63.07	1.64E-01	0.3	1.91E-01	0.3
258	63.32	1.61E-01	0.3	1.84E-01	0.3
259	63.57	1.59E-01	0.3	1.81E-01	0.3
260	63.81	1.53E-01	0.3	1.77E-01	0.3
261	64.06	1.51E-01	0.3	1.73E-01	0.3
262	64.30	1.48E-01	0.3	1.68E-01	0.3
263	64.55	1.49E-01	0.3	1.65E-01	0.3
264	64.79	1.51E-01	0.3	1.62E-01	0.3
265	65.04	1.48E-01	0.3	1.58E-01	0.3
266	65.29	1.48E-01	0.3	1.63E-01	0.3
267	65.53	1.49E-01	0.3	1.69E-01	0.3
268	65.78	1.48E-01	0.3	1.74E-01	0.3
269	66.02	1.45E-01	0.3	1.76E-01	0.3
270	66.27	1.44E-01	0.4	1.67E-01	0.3
271	66.52	1.41E-01	0.4	1.63E-01	0.3
272	66.76	1.45E-01	0.4	1.64E-01	0.3
273	67.01	1.43E-01	0.3	1.60E-01	0.3
274	67.25	1.40E-01	0.4	1.54E-01	0.4
275	67.50	1.28E-01	0.4	1.42E-01	0.4
276	67.75	1.25E-01	0.4	1.29E-01	0.4
277	67.99	1.36E-01	0.4	1.14E-01	0.4
278	68.24	1.50E-01	0.3	1.10E-01	0.4
279	68.48	1.47E-01	0.3	1.32E-01	0.4
280	68.73	1.23E-01	0.4	1.40E-01	0.4
281	68.98	1.08E-01	0.4	1.15E-01	0.4
282	69.22	1.03E-01	0.4	9.84E-02	0.4
283	69.47	1.04E-01	0.4	1.03E-01	0.4
284	69.71	1.06E-01	0.4	1.00E-01	0.4
285	69.96	1.06E-01	0.4	9.67E-02	0.4
286	70.20	1.03E-01	0.4	9.37E-02	0.4
287	70.45	1.06E-01	0.4	8.60E-02	0.4
288	70.70	1.08E-01	0.4	9.22E-02	0.4
289	70.94	9.38E-02	0.4	1.01E-01	0.4
290	71.19	9.27E-02	0.4	8.15E-02	0.4
291	71.43	9.31E-02	0.4	7.60E-02	0.4
292	71.68	8.83E-02	0.4	7.52E-02	0.4
293	71.93	8.58E-02	0.4	7.12E-02	0.5
294	72.17	8.24E-02	0.4	6.89E-02	0.5
295	72.42	7.85E-02	0.4	6.60E-02	0.5
296	72.66	7.68E-02	0.4	6.08E-02	0.5
297	72.91	6.85E-02	0.5	5.87E-02	0.5
298	73.16	5.95E-02	0.5	5.44E-02	0.5
299	73.40	5.24E-02	0.5	4.65E-02	0.5
300	73.65	5.86E-02	0.4	6.18E-02	0.3
301	73.89	5.06E-02	0.4	5.44E-02	0.4
302	74.14	4.33E-02	0.4	4.87E-02	0.4
303	74.38	3.43E-02	0.4	4.28E-02	0.4
304	74.63	2.54E-02	0.4	3.90E-02	0.4
305	74.88	2.07E-02	0.5	3.47E-02	0.4
306	75.12	1.80E-02	0.5	3.16E-02	0.4

Table A-10 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.69E-02	0.5	2.96E-02	0.4
308	75.61	1.44E-02	0.5	2.89E-02	0.4
309	75.86	1.30E-02	0.6	2.81E-02	0.4
310	76.11	1.23E-02	0.6	2.63E-02	0.4
311	76.35	1.12E-02	0.6	2.63E-02	0.4
312	76.60	1.06E-02	0.6	2.37E-02	0.4
313	76.84	1.15E-02	0.6	2.12E-02	0.4
314	77.09	1.28E-02	0.6	2.17E-02	0.4
315	77.34	1.24E-02	0.6	2.40E-02	0.4
316	77.58	1.17E-02	0.6	2.29E-02	0.4
317	77.83	1.19E-02	0.6	2.10E-02	0.4
318	78.07	1.11E-02	0.6	2.18E-02	0.4
319	78.32	1.08E-02	0.6	2.15E-02	0.4
320	78.57	9.59E-03	0.7	1.99E-02	0.4
321	78.81	9.15E-03	0.7	1.51E-02	0.3
322	79.06	8.95E-03	0.7	1.33E-02	0.4
323	79.30	7.84E-03	0.4	1.38E-02	0.4
324	79.55	7.70E-03	0.4	1.48E-02	0.3
325	79.79	7.80E-03	0.4	1.38E-02	0.3
326	80.04	1.01E-02	0.4	1.31E-02	0.4
327	80.29	1.32E-02	0.4	1.85E-02	0.3
328	80.53	1.42E-02	0.4	2.66E-02	0.3
329	80.78	1.43E-02	0.4	3.79E-02	0.3
330	81.02	1.47E-02	0.4	3.71E-02	0.4
331	81.27	1.59E-02	0.4	4.01E-02	0.3
332	81.52	1.57E-02	0.4	4.81E-02	0.3
333	81.76	1.47E-02	0.4	4.75E-02	0.3
334	82.01	1.53E-02	0.4	4.40E-02	0.3
335	82.25	1.30E-02	0.4	4.40E-02	0.3
336	82.50	1.16E-02	0.4	4.02E-02	0.3
337	82.75	8.19E-03	0.4	3.40E-02	0.4
338	82.99	8.48E-03	0.4	2.26E-02	0.4
339	83.24	1.00E-02	0.4	1.98E-02	0.4
340	83.48	8.10E-03	0.4	2.69E-02	0.4
341	83.73	4.78E-03	0.5	2.35E-02	0.4
342	83.97	3.81E-03	0.5	9.68E-03	0.4
343	84.22	2.59E-03	0.7	7.05E-03	0.4
344	84.47	1.30E-03	0.9	4.82E-03	0.5
345	84.71	6.30E-04	1.3	2.27E-03	0.7
346	84.96	3.62E-04	1.8	9.25E-04	1.1
347	85.20	3.12E-04	2.0	4.56E-04	1.6
348	85.45	2.67E-04	2.1	3.11E-04	2.0
349	85.70	2.20E-04	2.3	2.62E-04	2.2
350	85.94	2.19E-04	2.3	1.84E-04	2.7
351	86.19	2.30E-04	2.2	1.39E-04	3.2
352	86.43	2.52E-04	2.0	1.31E-04	3.2
353	86.68	3.03E-04	1.8	1.46E-04	2.9
354	86.93	3.45E-04	1.7	1.69E-04	2.6
355	87.17	3.73E-04	1.6	1.60E-04	2.7
356	87.42	4.40E-04	1.5	1.82E-04	2.4
357	87.66	4.72E-04	1.4	2.20E-04	2.2
358	87.91	3.81E-04	1.6	2.39E-04	2.1

Table A-11. Axial distribution of ^{137}Cs in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	1.05E-02	0.6	2.44E-02	0.4
2	1.63	9.09E-03	0.6	2.54E-02	0.4
3	1.39	9.31E-03	0.6	2.68E-02	0.4
4	1.14	9.94E-03	0.6	2.95E-02	0.3
5	0.89	1.10E-02	0.5	3.27E-02	0.3
6	0.65	1.94E-02	0.4	6.51E-02	0.3
7	0.40	6.84E-02	0.2	8.35E-02	0.2
8	0.16	9.94E-02	0.3	1.81E-02	0.4
9	0.09	3.94E-02	0.5	3.71E-03	1.2
10	0.34	5.44E-03	1.4	4.13E-03	0.9
11	0.58	2.85E-03	2.0	3.71E-03	1.0
12	0.83	2.47E-03	2.3	3.32E-03	1.0
13	1.07	2.69E-03	2.1	3.35E-03	1.0
14	1.32	2.74E-03	2.1	3.60E-03	0.9
15	1.57	2.74E-03	2.1	3.84E-03	0.9
16	1.81	2.40E-03	2.3	3.86E-03	0.9
17	2.06	2.19E-03	2.4	5.28E-03	0.8
18	2.30	2.37E-03	2.3	1.32E-02	0.5
19	2.55	6.02E-03	1.3	2.30E-02	0.4
20	2.80	1.62E-02	0.8	2.29E-02	0.4
21	3.04	1.45E-02	0.8	1.66E-02	0.4
22	3.29	6.04E-03	1.3	1.46E-02	0.5
23	3.53	3.95E-03	1.7	1.40E-02	0.5
24	3.78	4.28E-03	1.6	1.46E-02	0.5
25	4.02	3.34E-03	1.9	1.70E-02	0.5
26	4.27	3.33E-03	1.9	2.09E-02	0.4
27	4.52	4.04E-03	1.7	2.63E-02	0.4
28	4.76	9.18E-03	1.1	3.49E-02	0.3
29	5.01	2.10E-02	0.7	5.14E-02	0.3
30	5.25	3.41E-02	0.6	7.26E-02	0.4
31	5.50	6.87E-02	0.4	1.25E-01	0.3
32	5.75	1.42E-01	0.3	1.25E-01	0.3
33	5.99	1.38E-01	0.3	6.23E-02	0.4
34	6.24	6.05E-02	0.4	2.28E-02	0.7
35	6.48	1.50E-02	0.9	1.80E-02	0.8
36	6.73	1.07E-02	1.0	1.98E-02	0.7
37	6.98	1.14E-02	1.0	2.66E-02	0.6
38	7.22	1.22E-02	1.0	2.85E-02	0.6
39	7.47	1.36E-02	0.9	3.28E-02	0.6
40	7.71	1.18E-02	1.0	3.87E-02	0.5
41	7.96	1.53E-02	0.9	4.43E-02	0.5
42	8.20	2.14E-02	0.7	6.84E-02	0.4
43	8.45	4.21E-02	0.5	1.06E-01	0.3
44	8.70	1.01E-01	0.4	1.10E-01	0.3
45	8.94	1.06E-01	0.3	1.15E-01	4.0
46	9.19	7.83E-02	0.4	1.22E-01	0.3
47	9.43	4.83E-02	0.5	1.00E-01	0.4

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	4.24E-02	0.5	1.02E-01	0.4
49	9.93	4.66E-02	0.5	1.08E-01	0.4
50	10.17	4.29E-02	0.6	1.07E-01	0.4
51	10.42	4.27E-02	0.5	1.20E-01	0.3
52	10.66	4.57E-02	0.5	1.10E-01	0.4
53	10.91	4.33E-02	0.5	1.24E-01	0.3
54	11.16	5.76E-02	0.5	1.31E-01	0.3
55	11.40	6.61E-02	0.5	1.55E-01	0.3
56	11.65	8.79E-02	0.4	2.13E-01	0.3
57	11.89	1.14E-01	0.4	1.91E-01	0.3
58	12.14	1.26E-01	0.4	1.78E-01	0.3
59	12.39	1.40E-01	0.3	1.80E-01	0.3
60	12.63	1.65E-01	0.3	1.86E-01	0.3
61	12.88	1.80E-01	0.3	1.80E+00	0.3
62	13.12	2.14E-01	0.6	2.27E-01	0.6
63	13.37	2.47E-01	0.6	2.40E-01	0.6
64	13.61	2.51E-01	0.6	2.72E-01	0.6
65	13.86	2.92E-01	0.5	2.92E-01	0.5
66	14.11	3.02E-01	0.5	3.46E-01	0.5
67	14.35	3.54E-01	0.5	3.77E-01	0.5
68	14.60	3.81E-01	0.5	3.98E-01	0.5
69	14.84	4.43E-01	0.4	4.68E-01	0.4
70	15.09	4.23E-01	0.5	3.74E-01	0.5
71	15.34	1.85E-01	0.7	2.01E-01	0.6
72	15.58	1.36E-01	0.8	1.81E-01	0.7
73	15.83	1.34E-01	0.8	1.92E-01	0.7
74	16.07	1.40E-01	0.8	2.37E-01	0.6
75	16.32	1.92E-01	0.7	2.71E-01	0.6
76	16.57	2.03E-01	0.6	3.11E-01	0.5
77	16.81	2.45E-01	0.6	3.84E-01	0.5
78	17.06	3.16E-01	0.5	4.50E-01	0.4
79	17.30	3.64E-01	0.5	6.01E-01	0.4
80	17.55	5.11E-01	0.4	7.28E-01	0.4
81	17.79	6.17E-01	0.4	8.79E-01	0.3
82	18.04	8.19E-01	0.3	1.08E+00	0.3
83	18.29	8.65E-01	0.3	9.70E-01	0.3
84	18.53	8.73E-01	0.3	1.01E+00	0.3
85	18.78	8.93E-01	0.3	1.10E+00	0.3
86	19.02	9.74E-01	0.3	1.15E+00	0.3
87	19.27	1.04E+00	0.3	1.24E+00	0.3
88	19.52	1.19E+00	0.3	1.38E+00	0.3
89	19.76	1.22E+00	0.3	1.43E+00	0.3
90	20.01	1.27E+00	0.3	1.57E+00	0.3
91	20.25	1.38E+00	0.3	1.69E+00	0.3
92	20.50	1.39E+00	0.3	1.65E+00	0.3
93	20.75	1.54E+00	0.3	1.69E+00	0.3
94	20.99	1.87E+00	0.3	2.12E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	1.85E+00	0.3	1.89E+00	0.3
96	21.48	1.59E+00	0.3	1.46E+00	0.3
97	21.73	1.58E+00	0.3	1.48E+00	0.3
98	21.98	1.72E+00	0.3	1.57E+00	0.3
99	22.22	1.78E+00	0.3	1.70E+00	0.3
100	22.47	1.86E+00	0.3	1.72E+00	0.3
101	22.71	1.98E+00	0.3	1.85E+00	0.3
102	22.96	1.96E+00	0.3	1.76E+00	0.3
103	23.20	2.02E+00	0.3	1.74E+00	0.3
104	23.45	2.19E+00	0.3	1.84E+00	0.3
105	23.70	2.29E+00	0.3	1.95E+00	0.3
106	23.94	2.72E+00	0.2	2.31E+00	0.3
107	24.19	2.69E+00	0.2	2.54E+00	0.2
108	24.43	2.30E+00	0.3	2.18E+00	0.3
109	24.68	2.31E+00	0.3	1.96E+00	0.3
110	24.93	2.27E+00	0.3	1.87E+00	0.3
111	25.17	2.31E+00	0.3	2.04E+00	0.3
112	25.42	2.35E+00	0.3	2.04E+00	0.3
113	25.66	2.43E+00	0.3	2.00E+00	0.3
114	25.91	2.53E+00	0.3	2.12E+00	0.3
115	26.16	2.48E+00	0.3	1.85E+00	0.3
116	26.40	2.45E+00	0.3	1.90E+00	0.3
117	26.65	2.49E+00	0.3	1.96E+00	0.3
118	26.89	2.38E+00	0.3	1.96E+00	0.3
119	27.14	2.43E+00	0.3	2.49E+00	0.2
120	27.39	2.35E+00	0.3	2.39E+00	0.3
121	27.63	2.30E+00	0.3	1.82E+00	0.3
122	27.88	2.42E+00	0.3	1.79E+00	0.3
123	28.12	2.35E+00	0.3	1.65E+00	0.3
124	28.37	2.41E+00	0.3	1.75E+00	0.3
125	28.61	2.37E+00	0.3	1.68E+00	0.3
126	28.86	2.34E+00	0.3	1.63E+00	0.3
127	29.11	2.56E+00	0.2	1.76E+00	0.3
128	29.35	2.37E+00	0.3	1.64E+00	0.3
129	29.60	2.47E+00	0.2	1.74E+00	0.3
130	29.84	2.62E+00	0.2	2.05E+00	0.3
131	30.09	1.04E+00	0.4	1.00E-01	1.3
132	30.34	2.64E+00	0.3	2.34E+00	0.3
133	30.58	2.36E+00	0.3	2.69E+00	0.3
134	30.83	2.21E+00	0.3	2.65E+00	0.3
135	31.07	2.43E+00	0.3	2.69E+00	0.3
136	31.32	2.57E+00	0.3	2.64E+00	0.3
137	31.57	2.62E+00	0.3	2.60E+00	0.3
138	31.81	2.80E+00	0.3	2.57E+00	0.3
139	32.06	2.88E+00	0.3	2.53E+00	0.3
140	32.30	2.90E+00	0.3	2.51E+00	0.3
141	32.55	2.91E+00	0.3	2.39E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	2.86E+00	0.3	2.50E+00	0.3
143	33.04	2.89E+00	0.3	2.52E+00	0.3
144	33.29	3.17E+00	0.3	2.67E+00	0.3
145	33.53	3.00E+00	0.3	2.59E+00	0.3
146	33.78	3.03E+00	0.3	2.59E+00	0.3
147	34.02	2.97E+00	0.3	2.37E+00	0.3
148	34.27	2.83E+00	0.3	2.40E+00	0.3
149	34.52	2.76E+00	0.3	2.29E+00	0.3
150	34.76	2.56E+00	0.3	2.23E+00	0.3
151	35.01	2.59E+00	0.3	2.24E+00	0.3
152	35.25	2.55E+00	0.3	2.23E+00	0.3
153	35.50	2.47E+00	0.3	2.20E+00	0.3
154	35.75	2.42E+00	0.3	2.20E+00	0.3
155	35.99	2.40E+00	0.3	2.24E+00	0.3
156	36.24	2.76E+00	0.3	2.53E+00	0.3
157	36.48	3.00E+00	0.3	2.81E+00	0.3
158	36.73	2.72E+00	0.3	2.56E+00	0.3
159	36.98	2.76E+00	0.3	2.63E+00	0.3
160	37.22	2.53E+00	0.3	2.54E+00	0.3
161	37.47	2.51E+00	0.3	2.40E+00	0.3
162	37.71	2.49E+00	0.3	2.42E+00	0.3
163	37.96	2.40E+00	0.3	2.34E+00	0.3
164	38.20	2.40E+00	0.3	2.17E+00	0.3
165	38.45	2.37E+00	0.3	2.23E+00	0.3
166	38.70	2.36E+00	0.3	2.21E+00	0.3
167	38.94	2.25E+00	0.3	2.14E+00	0.3
168	39.19	2.31E+00	0.3	2.09E+00	0.3
169	39.43	2.78E+00	0.3	2.46E+00	0.3
170	39.68	2.75E+00	0.3	2.54E+00	0.3
171	39.93	2.72E+00	0.5	2.37E+00	0.3
172	40.17	2.61E+00	0.3	2.40E+00	0.3
173	40.42	2.76E+00	0.3	2.44E+00	0.3
174	40.66	2.61E+00	0.3	2.34E+00	0.3
175	40.91	2.63E+00	0.3	2.34E+00	0.3
176	41.16	2.54E+00	0.3	2.21E+00	0.3
177	41.40	2.45E+00	0.3	2.12E+00	0.3
178	41.65	2.45E+00	0.3	2.18E+00	0.3
179	41.89	2.41E+00	0.3	2.16E+00	0.3
180	42.14	2.33E+00	0.3	2.37E+00	0.3
181	42.39	2.52E+00	0.3	2.83E+00	0.3
182	42.63	3.04E+00	0.3	2.61E+00	0.3
183	42.88	3.01E+00	0.3	2.47E+00	0.3
184	43.12	2.91E+00	0.3	2.40E+00	0.3
185	43.37	2.89E+00	0.3	2.31E+00	0.3
186	43.61	2.94E+00	0.3	2.40E+00	0.3
187	43.86	2.81E+00	0.3	2.34E+00	0.3
188	44.11	2.85E+00	0.3	2.50E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	2.92E+00	0.3	2.32E+00	0.3
190	44.60	2.77E+00	0.3	2.28E+00	0.3
191	44.84	2.76E+00	0.3	2.24E+00	0.3
192	45.09	2.69E+00	0.3	2.17E+00	0.3
193	45.34	2.81E+00	0.3	2.78E+00	0.3
194	45.58	3.25E+00	0.3	2.85E+00	0.3
195	45.83	3.14E+00	0.3	2.43E+00	0.3
196	46.07	3.08E+00	0.3	2.46E+00	0.3
197	46.32	3.02E+00	0.3	2.44E+00	0.3
198	46.57	3.02E+00	0.3	2.56E+00	0.3
199	46.81	3.06E+00	0.3	2.54E+00	0.3
200	47.06	3.02E+00	0.3	2.43E+00	0.3
201	47.30	3.07E+00	0.3	2.48E+00	0.3
202	47.55	2.88E+00	0.3	2.34E+00	0.3
203	47.79	2.75E+00	0.3	2.28E+00	0.3
204	48.04	2.59E+00	0.3	2.14E+00	0.3
205	48.29	2.42E+00	0.3	2.43E+00	0.3
206	48.53	2.85E+00	0.3	2.95E+00	0.3
207	48.78	3.21E+00	0.3	2.48E+00	0.3
208	49.02	2.89E+00	0.3	2.36E+00	0.3
209	49.27	2.92E+00	0.3	2.40E+00	0.3
210	49.52	2.87E+00	0.3	2.29E+00	0.3
211	49.76	2.87E+00	0.3	2.14E+00	0.3
212	50.01	2.92E+00	0.3	2.19E+00	0.3
213	50.25	2.71E+00	0.3	2.04E+00	0.3
214	50.50	2.66E+00	0.3	1.97E+00	0.3
215	50.75	2.61E+00	0.3	1.84E+00	0.3
216	50.99	2.28E+00	0.3	1.66E+00	0.3
217	51.24	2.13E+00	0.3	1.85E+00	0.3
218	51.48	2.28E+00	0.3	2.30E+00	0.3
219	51.73	2.87E+00	0.3	1.95E+00	0.3
220	51.98	2.58E+00	0.3	1.76E+00	0.3
221	52.22	2.25E+00	0.3	1.75E+00	0.3
222	52.47	2.36E+00	0.3	1.80E+00	0.3
223	52.71	2.26E+00	0.3	1.81E+00	0.3
224	52.96	2.16E+00	0.3	1.78E+00	0.3
225	53.20	2.15E+00	0.3	1.77E+00	0.3
226	53.45	2.13E+00	0.3	1.65E+00	0.3
227	53.70	1.95E+00	0.3	1.72E+00	0.3
228	53.94	1.92E+00	0.3	1.57E+00	0.3
229	54.19	1.74E+00	0.3	1.52E+00	0.3
230	54.43	1.66E+00	0.3	1.84E+00	0.3
231	54.68	2.02E+00	0.3	2.03E+00	0.3
232	54.93	2.24E+00	0.3	2.07E+00	0.3
233	55.17	2.31E+00	0.3	2.03E+00	0.3
234	55.42	2.20E+00	0.3	1.92E+00	0.3
235	55.66	2.21E+00	0.3	2.00E+00	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	2.34E+00	0.3	1.88E+00	0.3
237	56.16	2.14E+00	0.3	1.95E+00	0.3
238	56.40	2.17E+00	0.3	1.94E+00	0.3
239	56.65	2.06E+00	0.3	1.82E+00	0.3
240	56.89	1.90E+00	0.3	1.77E+00	0.3
241	57.14	1.74E+00	0.3	1.64E+00	0.3
242	57.39	1.70E+00	0.3	2.26E+00	0.3
243	57.63	1.98E+00	0.3	2.38E+00	0.3
244	57.88	2.00E+00	0.3	2.30E+00	0.3
245	58.12	2.04E+00	0.3	2.38E+00	0.3
246	58.37	2.23E+00	0.3	2.40E+00	0.3
247	58.61	2.20E+00	0.3	2.30E+00	0.3
248	58.86	2.09E+00	0.3	2.29E+00	0.3
249	59.11	2.02E+00	0.3	2.09E+00	0.3
250	59.35	1.95E+00	0.3	2.11E+00	0.3
251	59.60	1.71E+00	0.3	1.97E+00	0.3
252	59.84	1.60E+00	0.3	1.73E+00	0.3
253	60.09	1.93E-01	0.7	2.25E-01	0.7
254	60.34	1.61E+00	0.3	1.87E+00	0.3
255	60.58	1.74E+00	0.3	2.12E+00	0.3
256	60.83	1.90E+00	0.3	2.22E+00	0.3
257	61.07	2.15E+00	0.3	2.27E+00	0.3
258	61.32	2.13E+00	0.3	1.97E+00	0.3
259	61.57	1.93E+00	0.3	1.84E+00	0.3
260	61.81	1.92E+00	0.3	1.70E+00	0.3
261	62.06	1.63E+00	0.3	1.80E-01	0.3
262	62.30	1.38E+00	0.3	1.64E-01	0.3
263	62.55	1.15E+00	0.3	1.38E-01	0.3
264	62.79	9.34E-01	0.3	1.36E-01	0.3
265	63.04	1.11E+00	0.3	1.73E-01	0.3
266	63.29	1.15E+00	0.3	2.00E-01	0.3
267	63.53	1.03E+00	0.3	2.20E-01	0.3
268	63.78	1.04E+00	0.3	2.26E-01	0.3
269	64.02	8.93E-01	0.3	2.05E-01	0.3
270	64.27	8.82E-01	0.3	2.03E-01	0.3
271	64.52	8.33E-01	0.4	1.80E-01	0.3
272	64.76	6.72E-01	0.4	1.55E-01	0.3
273	65.01	6.48E-01	0.4	1.38E-01	0.3
274	65.25	5.37E-01	0.4	1.12E-01	0.3
275	65.50	5.00E-01	0.4	9.60E-02	0.4
276	65.75	5.14E-01	0.4	8.24E-02	0.4
277	65.99	6.23E-01	0.4	9.51E-02	0.4
278	66.24	8.20E-01	0.3	1.18E-01	0.3
279	66.48	8.99E-01	0.3	1.31E-01	0.3
280	66.73	9.31E-01	0.3	1.38E-01	0.3
281	66.98	9.73E-01	0.3	1.39E-01	0.3
282	67.22	8.17E-01	0.3	1.32E-01	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	7.96E-01	0.3	1.30E-01	0.3
284	67.71	7.18E-01	0.4	1.21E-01	0.3
285	67.96	6.26E-01	0.4	1.15E-01	0.3
286	68.20	5.97E-01	0.4	1.10E-01	0.3
287	68.45	4.92E-01	0.4	9.59E-02	0.3
288	68.70	4.71E-01	0.4	9.15E-02	0.4
289	68.94	5.26E-01	0.4	1.00E-01	0.3
290	69.19	5.35E-01	0.4	1.08E-01	0.3
291	69.43	6.03E-01	0.4	9.80E-02	0.3
292	69.68	6.95E-01	0.4	9.40E-02	0.4
293	69.93	6.17E-01	0.4	8.84E-02	0.4
294	70.17	6.07E-01	0.4	9.04E-02	0.4
295	70.42	5.29E-01	0.4	8.48E-02	0.4
296	70.66	5.15E-01	0.4	8.33E-02	0.4
297	70.91	5.15E-01	0.4	8.29E-02	0.4
298	71.16	4.33E-01	0.4	8.00E-02	0.4
299	71.40	4.00E-01	0.5	6.82E-02	0.4
300	71.65	3.49E-01	0.5	6.61E-02	0.4
301	71.89	3.24E-01	0.5	6.88E-02	0.4
302	72.14	3.86E-01	0.5	7.03E-02	0.4
303	72.38	3.52E-01	0.4	7.88E-02	0.4
304	72.63	1.58E-02	7.0	8.08E-02	0.4
305	72.88	5.38E-01	0.4	7.67E-02	0.4
306	73.12	7.32E-01	0.3	6.95E-02	0.4
307	73.37	7.98E-01	0.3	6.32E-02	0.4
308	73.61	6.32E-01	0.4	5.73E-02	0.4
309	73.86	6.05E-01	0.4	4.94E-02	0.5
310	74.11	4.85E-01	0.4	4.37E-02	0.5
311	74.35	3.92E-01	0.5	3.91E-02	0.5
312	74.60	3.35E-01	0.5	8.88E-03	0.6
313	74.84	2.48E-01	0.6	8.56E-03	0.6
314	75.09	2.10E-01	0.6	9.01E-03	0.5
315	75.34	1.95E-01	0.3	1.15E-02	0.5
316	75.58	1.96E-01	0.3	1.13E-02	0.5
317	75.83	2.81E-01	0.3	7.76E-02	0.3
318	76.07	2.95E-01	0.3	6.52E-02	0.3
319	76.32	2.18E-01	0.3	5.71E-02	0.3
320	76.57	1.88E-01	0.3	5.80E-02	0.3
321	76.81	1.72E-01	0.3	4.91E-02	0.3
322	77.06	1.62E-01	0.3	4.68E-02	0.3
323	77.30	1.56E-01	0.3	4.60E-02	0.3
324	77.55	1.40E-01	0.3	4.56E-02	0.3
325	77.79	1.49E-01	0.3	4.30E-02	0.3
326	78.04	1.49E-01	0.3	3.80E-02	0.3
327	78.29	1.36E-01	0.3	3.59E-02	0.3
328	78.53	1.49E-01	0.3	4.05E-02	0.3
329	78.78	1.75E-01	0.3	4.33E-02	0.3

Table A-11 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	2.41E-01	0.3	4.73E-02	0.3
331	79.27	2.02E-01	0.3	4.29E-02	0.3
332	79.52	1.45E-01	0.3	3.97E-02	0.3
333	79.76	1.44E-01	0.3	9.70E-03	0.3
334	80.01	1.20E-01	0.3	8.59E-03	0.3
335	80.25	1.14E-01	0.3	7.83E-03	0.3
336	80.50	1.15E-01	0.3	6.74E-03	0.4
337	80.75	1.04E-01	0.3	5.44E-03	0.4
338	80.99	9.99E-02	0.3	4.78E-03	0.4
339	81.24	8.40E-02	0.4	4.05E-03	0.4
340	81.48	8.82E-02	0.4	4.26E-03	0.4
341	81.73	1.08E-01	0.3	2.77E-02	0.3
342	81.97	1.09E-01	0.3	2.98E-02	0.3
343	82.22	1.23E-01	0.3	2.76E-02	0.3
344	82.47	1.07E-01	0.3	2.68E-02	0.3
345	82.71	8.41E-02	0.4	2.59E-02	0.3
346	82.96	8.54E-02	0.4	2.36E-02	0.4
347	83.20	7.53E-02	0.4	2.13E-02	0.4
348	83.45	6.26E-02	0.4	1.76E-02	0.4
349	83.70	5.97E-02	0.4	1.33E-02	0.5
350	83.94	4.02E-02	0.5	1.03E-02	0.5
351	84.19	3.76E-02	0.3	3.51E-02	0.3
352	84.43	4.11E-02	0.3	2.65E-02	0.4
353	84.68	3.96E-02	0.3	3.61E-02	0.3
354	84.93	4.08E-02	0.3	9.81E-03	0.3
355	85.17	5.27E-02	0.3	6.76E-03	0.4
356	85.42	3.54E-02	0.3	4.61E-03	0.4
357	85.66	2.24E-02	0.4	2.66E-03	0.6
358	85.91	1.50E-02	0.5	1.56E-03	0.7
359	86.16	1.01E-02	0.6	9.69E-04	1.0
360	86.40	5.77E-03	0.7	6.81E-04	1.0
361	86.65	3.60E-03	0.8	6.90E-04	1.0
362	86.89	2.86E-03	0.9	7.63E-04	1.1
363	87.14	2.58E-03	1.0	7.81E-04	1.1
364	87.38	3.00E-03	0.9	1.20E-03	0.8
365	87.63	3.62E-03	0.8	1.21E-03	0.8
366	87.88	4.66E-03	0.7	1.15E-03	0.8
367	88.12	4.96E-03	0.7	1.04E-03	0.9
368	88.37	4.64E-03	0.8	8.69E-04	1.2
369	88.61	4.41E-03	0.8	1.07E-03	1.1
370	88.86	3.70E-03	1.1	1.07E-03	1.1
371	89.11	4.74E-03	0.9	1.04E-03	1.2
372	89.35	4.58E-03	1.0	9.51E-04	1.4
373	89.60	2.80E-03	1.6	8.23E-04	1.6
374	89.84	2.18E-03	2.1	4.22E-04	2.7

Table A-12. Axial distribution of ^{137}Cs in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	1.83E-03	1.1	3.95E-02	0.3
2	0.37	3.36E-02	0.3	2.69E-02	0.3
3	0.61	2.25E-02	0.3	2.43E-02	0.3
4	0.86	2.13E-02	0.3	2.74E-02	0.3
5	1.11	2.24E-02	0.3	3.27E-02	0.3
6	1.35	2.77E-02	0.3	4.16E-02	0.3
7	1.60	3.52E-02	0.3	4.85E-02	0.3
8	1.84	4.15E-02	0.3	5.56E-02	0.3
9	2.09	4.63E-02	0.3	4.49E-02	0.4
10	2.34	3.51E-02	0.4	4.96E-02	0.4
11	2.58	3.87E-02	0.4	5.30E-02	0.4
12	2.83	4.09E-02	0.4	5.75E-02	0.4
13	3.07	4.33E-02	0.4	6.40E-02	0.3
14	3.32	4.91E-02	0.4	5.60E-02	0.3
15	3.57	5.33E-02	0.4	6.66E-02	0.3
16	3.81	5.72E-02	0.4	7.20E-02	0.3
17	4.06	5.51E-02	0.3	7.99E-02	0.3
18	4.30	7.43E-02	0.3	5.02E-02	0.3
19	4.55	8.07E-02	0.3	9.58E-02	0.3
20	4.80	6.63E-02	0.3	1.02E-01	0.3
21	5.04	9.28E-02	0.3	1.03E-01	0.3
22	5.29	9.38E-02	0.3	1.17E-01	0.3
23	5.53	9.74E-02	0.3	1.29E-01	0.3
24	5.78	1.05E-01	0.3	1.41E-01	0.3
25	6.02	1.16E-01	0.3	1.53E-01	0.3
26	6.27	1.29E-01	0.3	1.48E-01	0.3
27	6.52	1.21E-01	0.3	1.47E-01	0.3
28	6.76	1.18E-01	0.3	1.56E-01	0.3
29	7.01	1.20E-01	0.3	1.69E-01	0.3
30	7.25	1.37E-01	0.3	1.74E-01	0.3
31	7.50	1.45E-01	0.3	1.80E-01	0.3
32	7.75	1.39E-01	0.3	1.73E-01	0.5
33	7.99	1.39E-01	0.3	1.84E-01	0.5
34	8.24	1.41E-01	0.3	1.98E-01	0.5
35	8.48	1.47E-01	0.3	2.11E-01	0.5
36	8.73	1.60E-01	0.3	2.22E-01	0.5
37	8.98	1.40E-01	0.6	2.23E-01	0.5
38	9.22	1.38E-01	0.6	2.32E-01	0.5
39	9.47	1.42E-01	0.6	2.28E-01	0.5
40	9.71	1.23E-01	0.6	2.29E-01	0.5
41	9.96	1.36E-01	0.6	2.46E-01	0.5
42	10.20	1.56E-01	0.6	2.55E-01	0.5
43	10.45	1.80E-01	0.5	2.75E-01	0.4
44	10.70	2.08E-01	0.5	3.06E-01	0.4
45	10.94	2.06E-01	0.5	3.11E-01	0.4
46	11.19	2.08E-01	0.5	3.10E-01	0.4
47	11.43	2.05E-01	0.5	3.20E-01	0.4
48	11.68	2.04E-01	0.5	3.45E-01	0.4
49	11.93	1.85E-01	0.5	3.52E-01	0.4
50	12.17	1.70E-01	0.5	3.88E-01	0.4
51	12.42	1.55E-01	0.6	3.82E-01	0.4

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	1.36E-01	0.6	3.39E-01	0.4
53	12.91	1.43E-01	0.6	3.82E-01	0.4
54	13.16	1.41E-01	0.6	3.66E-01	0.4
55	13.40	1.40E-01	0.6	3.47E-01	0.4
56	13.65	1.42E-01	0.6	3.48E-01	0.4
57	13.89	1.36E-01	0.6	3.50E-01	0.4
58	14.14	1.37E-01	0.6	3.33E-01	0.4
59	14.39	1.40E-01	0.6	3.27E-01	0.4
60	14.63	1.58E-01	0.6	3.30E-01	0.4
61	14.88	1.66E-01	0.6	3.22E-01	0.4
62	15.12	1.69E-01	0.6	3.23E-01	0.4
63	15.37	1.69E-01	0.6	3.20E-01	0.4
64	15.61	1.63E-01	0.6	3.11E-01	0.4
65	15.86	1.52E-01	0.6	3.02E-01	0.4
66	16.11	1.41E-01	0.6	3.14E-01	0.4
67	16.35	1.66E-01	0.6	3.31E-01	0.4
68	16.60	1.89E-01	0.5	3.51E-01	0.4
69	16.84	2.00E-01	0.5	3.37E-01	0.4
70	17.09	2.33E-01	0.5	3.40E-01	0.4
71	17.34	2.39E-01	0.5	3.58E-01	0.4
72	17.58	2.53E-01	0.5	3.76E-01	0.4
73	17.83	2.55E-01	0.5	4.64E-01	0.4
74	18.07	2.64E-01	0.5	4.51E-01	0.4
75	18.32	3.38E-01	0.4	4.94E-01	0.4
76	18.57	4.45E-01	0.4	4.92E-01	0.4
77	18.81	4.40E-01	0.4	4.86E-01	0.4
78	19.06	4.44E-01	0.4	4.81E-01	0.4
79	19.30	4.35E-01	0.4	4.75E-01	0.4
80	19.55	4.32E-01	0.4	4.75E-01	0.4
81	19.79	4.48E-01	0.4	4.94E-01	0.4
82	20.04	4.92E-01	0.4	5.26E-01	0.3
83	20.29	5.45E-01	0.3	5.79E-01	0.3
84	20.53	5.83E-01	0.3	6.14E-01	0.3
85	20.78	6.22E-01	0.3	6.49E-01	0.3
86	21.02	6.59E-01	0.3	6.85E-01	0.3
87	21.27	7.05E-01	0.3	7.14E-01	0.3
88	21.52	7.61E-01	0.3	7.22E-01	0.3
89	21.76	8.04E-01	0.3	7.48E-01	0.3
90	22.01	8.15E-01	0.3	7.95E-01	0.3
91	22.25	8.61E-01	0.3	8.52E-01	0.3
92	22.50	8.86E-01	0.3	8.56E-01	0.3
93	22.75	8.97E-01	0.3	8.79E-01	0.3
94	22.99	9.22E-01	0.3	8.90E-01	0.3
95	23.24	8.85E-01	0.3	9.19E-01	0.3
96	23.48	8.98E-01	0.3	9.35E-01	0.3
97	23.73	8.97E-01	0.3	9.04E-01	0.3
98	23.98	8.73E-01	0.3	8.66E-01	0.3
99	24.22	8.67E-01	0.3	8.52E-01	0.3
100	24.47	9.06E-01	0.3	8.65E-01	0.3
101	24.71	9.29E-01	0.3	9.00E-01	0.3
102	24.96	9.60E-01	0.3	1.00E+00	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	1.06E+00	0.3	1.09E+00	0.3
104	25.45	1.14E+00	0.3	1.10E+00	0.3
105	25.70	1.17E+00	0.3	1.10E+00	0.3
106	25.94	1.16E+00	0.3	1.07E+00	0.3
107	26.19	1.15E+00	0.3	9.60E-01	0.3
108	26.43	1.07E+00	0.3	9.09E-01	0.3
109	26.68	9.95E-01	0.3	9.04E-01	0.3
110	26.93	9.82E-01	0.3	8.99E-01	0.3
111	27.17	9.77E-01	0.3	9.13E-01	0.3
112	27.42	9.94E-01	0.3	9.46E-01	0.3
113	27.66	1.02E+00	0.3	9.75E-01	0.3
114	27.91	1.00E+00	0.3	9.35E-01	0.3
115	28.16	9.59E-01	0.3	9.16E-01	0.3
116	28.40	9.11E-01	0.3	8.87E-01	0.3
117	28.65	8.65E-01	0.3	8.35E-01	0.3
118	28.89	8.35E-01	0.3	7.81E-01	0.3
119	29.14	7.82E-01	0.3	7.46E-01	0.3
120	29.39	7.67E-01	0.3	7.13E-01	0.3
121	29.63	7.50E-01	0.3	7.10E-01	0.3
122	29.88	3.32E-01	0.4	1.20E-03	3.9
123	30.12	1.03E+00	0.3	2.60E-01	0.5
124	30.37	7.73E-01	0.3	1.34E+00	0.3
125	30.61	7.32E-01	0.3	1.02E+00	0.3
126	30.86	7.71E-01	0.3	8.22E-01	0.3
127	31.11	8.57E-01	0.3	6.85E-01	0.3
128	31.35	8.42E-01	0.3	9.58E-01	0.3
129	31.60	8.01E-01	0.3	9.25E-01	0.3
130	31.84	7.65E-01	0.3	8.59E-01	0.3
131	32.09	7.69E-01	0.3	8.16E-01	0.3
132	32.34	8.11E-01	0.3	5.12E-01	0.3
133	32.58	8.53E-01	0.3	8.31E-01	0.3
134	32.83	8.48E-01	0.3	8.22E-01	0.3
135	33.07	8.38E-01	0.3	7.32E-01	0.3
136	33.32	8.21E-01	0.3	7.53E-01	0.3
137	33.57	8.06E-01	0.3	7.34E-01	0.3
138	33.81	7.86E-01	0.3	7.36E-01	0.3
139	34.06	7.77E-01	0.3	7.19E-01	0.3
140	34.30	7.51E-01	0.3	7.22E-01	0.3
141	34.55	7.47E-01	0.3	7.21E-01	0.3
142	34.79	7.34E-01	0.3	7.26E-01	0.3
143	35.04	7.40E-01	0.3	7.20E-01	0.3
144	35.29	7.24E-01	0.3	7.22E-01	0.3
145	35.53	7.30E-01	0.3	7.24E-01	0.3
146	35.78	7.24E-01	0.3	7.21E-01	0.3
147	36.02	7.27E-01	0.3	7.29E-01	0.3
148	36.27	7.34E-01	0.3	7.25E-01	0.3
149	36.52	7.43E-01	0.3	7.35E-01	0.3
150	36.76	7.54E-01	0.3	7.44E-01	0.3
151	37.01	7.59E-01	0.3	7.47E-01	0.3
152	37.25	7.57E-01	0.3	7.58E-01	0.3
153	37.50	7.46E-01	0.3	7.53E-01	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	7.26E-01	0.3	7.38E-01	0.3
155	37.99	7.16E-01	0.3	7.27E-01	0.3
156	38.24	7.19E-01	0.3	7.23E-01	0.3
157	38.48	7.06E-01	0.3	7.34E-01	0.3
158	38.73	7.00E-01	0.3	7.25E-01	0.3
159	38.98	6.76E-01	0.3	7.21E-01	0.3
160	39.22	6.58E-01	0.3	7.12E-01	0.3
161	39.47	6.35E-01	0.3	7.01E-01	0.3
162	39.71	6.30E-01	0.3	6.82E-01	0.3
163	39.96	6.17E-01	0.3	6.88E-01	0.3
164	40.20	5.97E-01	0.3	6.75E-01	0.3
165	40.45	5.67E-01	0.3	6.39E-01	0.3
166	40.70	5.29E-01	0.3	6.07E-01	0.3
167	40.94	4.99E-01	0.4	5.69E-01	0.3
168	41.19	4.76E-01	0.4	5.28E-01	0.3
169	41.43	4.66E-01	0.4	5.06E-01	0.3
170	41.68	4.60E-01	0.4	5.06E-01	0.3
171	41.93	4.56E-01	0.4	5.01E-01	0.3
172	42.17	4.61E-01	0.4	4.95E-01	0.3
173	42.42	4.69E-01	0.4	4.94E-01	0.3
174	42.66	4.70E-01	0.4	4.97E-01	0.3
175	42.91	4.69E-01	0.4	5.01E-01	0.3
176	43.16	4.62E-01	0.4	4.93E-01	0.3
177	43.40	4.69E-01	0.4	4.93E-01	0.3
178	43.65	4.82E-01	0.4	5.05E-01	0.3
179	43.89	4.93E-01	0.3	5.15E-01	0.3
180	44.14	4.94E-01	0.3	5.21E-01	0.3
181	44.39	4.93E-01	0.4	5.28E-01	0.3
182	44.63	4.80E-01	0.4	5.20E-01	0.3
183	44.88	4.70E-01	0.4	5.16E-01	0.3
184	45.12	4.57E-01	0.4	5.09E-01	0.3
185	45.37	4.53E-01	0.4	5.00E-01	0.3
186	45.61	4.57E-01	0.4	4.97E-01	0.3
187	45.86	4.48E-01	0.4	5.02E-01	0.3
188	46.11	4.35E-01	0.4	4.89E-01	0.3
189	46.35	4.14E-01	0.4	4.75E-01	0.4
190	46.60	3.84E-01	0.4	4.45E-01	0.4
191	46.84	3.56E-01	0.4	4.14E-01	0.4
192	47.09	3.36E-01	0.4	3.88E-01	0.4
193	47.34	3.15E-01	0.4	3.63E-01	0.4
194	47.58	3.01E-01	0.4	3.47E-01	0.4
195	47.83	2.90E-01	0.4	3.32E-01	0.4
196	48.07	2.76E-01	0.4	3.16E-01	0.4
197	48.32	2.65E-01	0.4	2.96E-01	0.4
198	48.57	2.61E-01	0.5	2.83E-01	0.4
199	48.81	2.60E-01	0.5	2.77E-01	0.4
200	49.06	2.57E-01	0.5	2.73E-01	0.4
201	49.30	2.47E-01	0.5	2.71E-01	0.4
202	49.55	2.47E-01	0.5	2.67E-01	0.4
203	49.79	2.45E-01	0.5	2.62E-01	0.4
204	50.04	2.48E-01	0.5	2.56E-01	0.5

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.46E-01	0.5	2.51E-01	0.5
206	50.53	2.41E-01	0.5	2.44E-01	0.5
207	50.70	2.34E-01	0.5	2.31E-01	0.5
208	51.02	2.18E-01	0.5	2.15E-01	0.5
209	51.27	2.09E-01	0.5	1.99E-01	0.5
210	51.52	1.99E-01	0.5	1.88E-01	0.5
211	51.76	1.93E-01	0.5	1.83E-01	0.5
212	52.01	1.94E-01	0.5	1.84E-01	0.5
213	52.25	1.88E-01	0.5	1.81E-01	0.5
214	52.50	1.81E-01	0.5	1.74E-01	0.5
215	52.75	1.72E-01	0.5	1.69E-01	0.5
216	52.99	1.73E-01	0.5	1.66E-01	0.5
217	53.24	1.71E-01	0.5	1.59E-01	0.6
218	53.46	1.70E-01	0.5	1.57E-01	0.6
219	53.73	1.70E-01	0.5	1.54E-01	0.6
220	53.98	1.67E-01	0.5	1.50E-01	0.6
221	54.22	1.65E-01	0.5	1.47E-01	0.6
222	54.47	1.67E-01	0.5	1.46E-01	0.6
223	54.71	1.69E-01	0.5	1.44E-01	0.6
224	54.96	1.63E-01	0.6	1.47E-01	0.6
225	55.20	1.63E-01	0.6	1.43E-01	0.6
226	55.45	1.66E-01	0.5	1.45E-01	0.6
227	55.70	1.68E-01	0.5	1.47E-01	0.6
228	55.94	1.66E-01	0.5	1.46E-01	0.6
229	56.19	1.64E-01	0.6	1.44E-01	0.6
230	56.43	1.66E-01	0.5	1.44E-01	0.6
231	56.68	1.67E-01	0.5	1.41E-01	0.6
232	56.93	1.71E-01	0.5	1.36E-01	0.6
233	57.17	1.69E-01	0.5	1.28E-01	0.5
234	57.42	1.65E-01	0.5	1.21E-01	0.6
235	57.66	1.69E-01	0.5	1.27E-01	0.6
236	57.91	1.78E-01	0.5	1.32E-01	0.6
237	58.16	1.85E-01	0.5	1.36E-01	0.6
238	58.40	1.91E-01	0.5	1.40E-01	0.6
239	58.65	2.04E-01	0.5	1.37E-01	0.6
240	58.89	2.23E-01	0.5	1.43E-01	0.6
241	59.14	3.99E-01	0.4	1.52E-01	0.6
242	59.39	3.43E-01	0.4	3.81E-01	0.4
243	59.63	2.92E-01	0.4	2.76E-01	0.4
244	59.86	1.82E-01	0.5	2.27E-01	0.5
245	60.12	2.28E-01	0.5	1.70E-01	0.5
246	60.37	2.14E-01	0.5	1.51E-01	0.6
247	60.61	1.93E-01	0.5	1.47E-01	0.6
248	60.86	1.67E-01	0.5	1.37E-01	0.6
249	61.11	1.46E-01	0.6	1.26E-01	0.3
250	61.35	1.30E-01	0.3	1.17E-01	0.3
251	61.60	1.19E-01	0.3	1.12E-01	0.3
252	61.84	1.11E-01	0.3	1.09E-01	0.3
253	62.09	1.08E-01	0.3	1.12E-01	0.3
254	62.34	1.05E-01	0.3	1.16E-01	0.3
255	62.58	1.01E-01	0.3	1.16E-01	0.3

Table A-12 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	9.82E-02	0.3	1.12E-01	0.3
257	63.07	9.67E-02	0.3	1.09E-01	0.3
258	63.32	9.50E-02	0.3	1.05E-01	0.3
259	63.57	9.34E-02	0.3	1.03E-01	0.3
260	63.81	8.95E-02	0.3	1.00E-01	0.3
261	64.06	8.72E-02	0.3	9.99E-02	0.3
262	64.30	8.56E-02	0.3	9.65E-02	0.3
263	64.55	8.63E-02	0.3	9.38E-02	0.3
264	64.79	8.79E-02	0.3	9.28E-02	0.3
265	65.04	8.63E-02	0.3	9.08E-02	0.3
266	65.29	8.59E-02	0.3	9.18E-02	0.3
267	65.53	8.59E-02	0.3	9.51E-02	0.3
268	65.78	8.72E-02	0.3	9.92E-02	0.3
269	66.02	8.51E-02	0.3	9.85E-02	0.3
270	66.27	8.47E-02	0.3	9.48E-02	0.3
271	66.52	8.29E-02	0.3	9.21E-02	0.3
272	66.76	8.52E-02	0.3	9.22E-02	0.3
273	67.01	8.44E-02	0.3	9.19E-02	0.3
274	67.25	8.23E-02	0.3	8.81E-02	0.3
275	67.50	7.60E-02	0.3	8.35E-02	0.3
276	67.75	7.51E-02	0.3	7.49E-02	0.4
277	67.99	8.06E-02	0.3	6.59E-02	0.4
278	68.24	9.00E-02	0.3	6.54E-02	0.4
279	68.48	8.72E-02	0.3	7.80E-02	0.3
280	68.73	7.35E-02	0.3	8.40E-02	0.3
281	68.98	6.61E-02	0.4	6.90E-02	0.4
282	69.22	6.30E-02	0.4	5.88E-02	0.4
283	69.47	6.41E-02	0.4	6.23E-02	0.4
284	69.71	6.51E-02	0.4	5.98E-02	0.4
285	69.96	6.54E-02	0.4	5.95E-02	0.4
286	70.20	6.34E-02	0.4	5.61E-02	0.4
287	70.45	6.61E-02	0.4	5.26E-02	0.4
288	70.70	6.65E-02	0.4	5.76E-02	0.4
289	70.94	5.84E-02	0.4	6.31E-02	0.4
290	71.19	5.87E-02	0.4	5.16E-02	0.4
291	71.43	5.93E-02	0.4	4.81E-02	0.4
292	71.68	5.64E-02	0.4	4.78E-02	0.4
293	71.93	5.49E-02	0.4	4.57E-02	0.4
294	72.17	5.33E-02	0.4	4.32E-02	0.4
295	72.42	5.07E-02	0.4	4.22E-02	0.4
296	72.66	4.92E-02	0.4	3.89E-02	0.4
297	72.91	4.47E-02	0.4	3.78E-02	0.4
298	73.16	3.99E-02	0.4	3.51E-02	0.5
299	73.40	3.45E-02	0.5	3.04E-02	0.5
300	73.65	3.95E-02	0.3	4.07E-02	0.3
301	73.89	3.37E-02	0.3	3.63E-02	0.3
302	74.14	2.92E-02	0.3	3.25E-02	0.3
303	74.38	2.32E-02	0.3	2.91E-02	0.3
304	74.63	1.73E-02	0.4	2.65E-02	0.3
305	74.88	1.41E-02	0.4	2.37E-02	0.3
306	75.12	1.26E-02	0.4	2.18E-02	0.3

Table A-12 (continued)

Inventory	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.18E-02	0.4	2.05E-02	0.3
308	75.61	1.01E-02	0.5	2.02E-02	0.3
309	75.86	9.24E-03	0.5	1.96E-02	0.3
310	76.11	8.78E-03	0.5	1.90E-02	0.3
311	76.35	8.07E-03	0.5	1.87E-02	0.3
312	76.60	7.80E-03	0.5	1.69E-02	0.4
313	76.84	8.47E-03	0.5	1.54E-02	0.4
314	77.09	9.43E-03	0.5	1.60E-02	0.4
315	77.34	9.22E-03	0.5	1.75E-02	0.4
316	77.58	8.88E-03	0.5	1.70E-02	0.4
317	77.83	9.18E-03	0.5	1.57E-02	0.4
318	78.07	8.86E-03	0.5	1.62E-02	0.4
319	78.32	8.39E-03	0.5	1.60E-02	0.4
320	78.57	7.49E-03	0.5	1.50E-02	0.4
321	78.81	7.04E-03	0.5	1.18E-02	0.3
322	79.06	6.94E-03	0.5	1.08E-02	0.3
323	79.30	6.19E-03	0.4	1.12E-02	0.3
324	79.55	6.13E-03	0.4	1.15E-02	0.3
325	79.79	6.23E-03	0.3	1.09E-02	0.3
326	80.04	8.18E-03	0.3	1.04E-02	0.3
327	80.29	1.06E-02	0.3	1.54E-02	0.2
328	80.53	1.16E-02	0.3	2.16E-02	0.2
329	80.78	1.17E-02	0.3	2.98E-02	0.3
330	81.02	1.22E-02	0.3	2.99E-02	0.3
331	81.27	1.36E-02	0.3	3.21E-02	0.3
332	81.52	1.38E-02	0.3	3.88E-02	0.3
333	81.76	1.31E-02	0.3	3.86E-02	0.3
334	82.01	1.33E-02	0.3	3.62E-02	0.3
335	82.25	1.19E-02	0.3	3.65E-02	0.3
336	82.50	1.01E-02	0.3	3.39E-02	0.3
337	82.75	7.19E-03	0.3	2.91E-02	0.3
338	82.99	7.54E-03	0.3	1.96E-02	0.3
339	83.24	8.97E-03	0.3	1.72E-02	0.3
340	83.48	7.23E-03	0.3	2.33E-02	0.3
341	83.73	4.36E-03	0.4	2.10E-02	0.3
342	83.97	3.50E-03	0.4	8.68E-03	0.3
343	84.22	2.36E-03	0.5	6.42E-03	0.3
344	84.47	1.22E-03	0.7	4.43E-03	0.4
345	84.71	6.03E-04	1.0	2.16E-03	0.5
346	84.96	3.47E-04	1.3	8.86E-04	0.8
347	85.20	3.01E-04	1.4	4.27E-04	1.2
348	85.45	2.67E-04	1.5	3.08E-04	1.4
349	85.70	2.17E-04	1.6	2.35E-04	1.6
350	85.94	1.98E-04	1.7	1.67E-04	2.0
351	86.19	2.28E-04	1.6	1.30E-04	2.3
352	86.43	2.63E-04	1.4	1.15E-04	2.4
353	86.68	2.99E-04	1.2	1.23E-04	2.3
354	86.93	3.44E-04	1.1	1.46E-04	2.0
355	87.17	3.96E-04	1.0	1.52E-04	1.9
356	87.42	4.78E-04	0.9	1.84E-04	1.7
357	87.66	5.32E-04	0.9	2.17E-04	1.5
358	87.91	4.28E-04	1.0	2.67E-04	1.4

Table A-13. Axial distribution of ^{144}Ce in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	1.88	2.18E-02	****	2.32E-02	****
2	1.63	1.83E-02	****	2.26E-02	****
3	1.39	1.77E-02	****	2.31E-02	****
4	1.14	2.14E-02	36.9	2.35E-02	****
5	0.89	1.72E-02	****	2.59E-02	****
6	0.65	2.06E-02	****	3.73E-02	****
7	0.40	3.98E-02	****	4.24E-02	****
8	0.16	6.50E-02	****	1.97E-02	****
9	0.09	4.49E-02	****	1.84E-02	****
10	0.34	3.04E-02	****	1.44E-02	****
11	0.58	2.95E-02	****	1.35E-02	****
12	0.83	3.92E-02	33.3	1.38E-02	****
13	1.07	2.86E-02	****	1.30E-02	****
14	1.32	2.76E-02	****	1.25E-02	****
15	1.57	2.92E-02	****	1.27E-02	****
16	1.81	2.84E-02	****	1.25E-02	****
17	2.06	2.84E-02	****	1.27E-02	****
18	2.30	2.87E-02	****	1.74E-02	****
19	2.55	3.07E-02	****	2.08E-02	****
20	2.80	3.52E-02	****	2.12E-02	****
21	3.04	3.55E-02	****	1.93E-02	****
22	3.29	3.26E-02	****	1.89E-02	****
23	3.53	3.18E-02	****	1.97E-02	****
24	3.78	3.31E-02	****	2.00E-02	****
25	4.02	3.00E-02	****	2.15E-02	****
26	4.27	3.18E-02	****	2.46E-02	****
27	4.52	3.38E-02	****	2.78E-02	****
28	4.76	3.55E-02	****	3.27E-02	****
29	5.01	4.20E-02	****	4.14E-02	****
30	5.25	4.89E-02	****	6.57E-02	****
31	5.50	6.40E-02	****	8.25E-02	****
32	5.75	9.74E-02	****	8.32E-02	****
33	5.99	9.54E-02	****	6.24E-02	****
34	6.24	6.11E-02	****	4.52E-02	****
35	6.48	4.27E-02	****	4.72E-02	****
36	6.73	4.03E-02	****	4.87E-02	****
37	6.98	4.19E-02	****	4.93E-02	****
38	7.22	4.17E-02	****	5.30E-02	****
39	7.47	4.62E-02	****	5.50E-02	****
40	7.71	4.58E-02	****	5.86E-02	****
41	7.96	4.69E-02	****	6.45E-02	****
42	8.20	5.24E-02	****	7.46E-02	****
43	8.45	6.29E-02	****	9.14E-02	****
44	8.70	9.13E-02	****	9.25E-02	****
45	8.94	9.60E-02	****	1.11E+00	****
46	9.19	8.06E-02	****	9.83E-02	****
47	9.43	7.08E-02	****	9.07E-02	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	7.00E-02	****	9.73E-02	****
49	9.93	7.18E-02	****	1.01E-01	****
50	10.17	7.17E-02	****	1.31E-01	36.4
51	10.42	7.31E-02	****	1.11E-01	****
52	10.66	7.62E-02	****	1.06E-01	****
53	10.91	7.51E-02	****	1.16E-01	****
54	11.16	8.31E-02	****	1.21E-01	****
55	11.40	8.67E-02	****	1.36E-01	****
56	11.65	1.05E-01	****	1.62E-01	****
57	11.89	1.21E-01	****	1.60E-01	****
58	12.14	1.30E-01	****	1.54E-01	****
59	12.39	1.39E-01	****	1.55E-01	****
60	12.63	1.53E-01	****	1.63E-01	****
61	12.88	1.65E-01	****	1.56E+00	****
62	13.12	3.26E-01	****	3.25E-01	****
63	13.37	3.67E-01	****	3.53E-01	****
64	13.61	3.43E-01	****	3.68E-01	****
65	13.86	3.84E-01	****	3.73E-01	****
66	14.11	3.83E-01	****	4.05E-01	****
67	14.35	4.11E-01	****	4.20E-01	****
68	14.60	4.26E-01	****	4.31E-01	****
69	14.84	4.72E-01	****	4.72E-01	****
70	15.09	4.50E-01	****	4.26E-01	****
71	15.34	3.41E-01	****	3.43E-01	****
72	15.58	3.25E-01	****	3.45E-01	****
73	15.83	3.20E-01	****	3.61E-01	****
74	16.07	3.22E-01	****	3.61E-01	****
75	16.32	3.49E-01	****	3.71E-01	****
76	16.57	3.62E-01	****	4.09E-01	****
77	16.81	3.84E-01	****	4.42E-01	****
78	17.06	4.18E-01	****	4.84E-01	****
79	17.30	4.50E-01	****	5.50E-01	****
80	17.55	5.17E-01	****	6.14E-01	****
81	17.79	5.79E-01	****	6.68E-01	****
82	18.04	6.68E-01	****	7.98E-01	****
83	18.29	7.03E-01	****	7.46E-01	****
84	18.53	7.13E-01	****	7.67E-01	****
85	18.78	7.21E-01	****	8.21E-01	****
86	19.02	7.76E-01	****	8.60E-01	****
87	19.27	8.18E-01	****	9.01E-01	****
88	19.52	8.78E-01	****	9.71E-01	****
89	19.76	9.06E-01	****	1.00E+00	****
90	20.01	9.45E-01	****	1.06E+00	****
91	20.25	1.00E+00	****	1.14E+00	****
92	20.50	1.00E+00	****	1.13E+00	****
93	20.75	1.08E+00	****	1.16E+00	****
94	20.99	1.29E+00	****	1.40E+00	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	1.26E+00	****	1.25E+00	****
96	21.48	1.11E+00	****	1.02E+00	****
97	21.73	1.12E+00	****	1.03E+00	****
98	21.98	1.19E+00	****	1.09E+00	****
99	22.22	1.21E+00	****	1.15E+00	****
100	22.47	1.29E+00	****	1.17E+00	****
101	22.71	1.35E+00	****	1.25E+00	****
102	22.96	1.33E+00	****	1.20E+00	****
103	23.20	1.37E+00	****	1.18E+00	****
104	23.45	1.46E+00	****	1.24E+00	****
105	23.70	1.52E+00	****	1.30E+00	****
106	23.94	1.79E+00	****	1.46E+00	****
107	24.19	1.78E+00	****	1.63E+00	****
108	24.43	1.53E+00	****	1.43E+00	****
109	24.68	1.53E+00	****	1.31E+00	****
110	24.93	1.50E+00	****	1.27E+00	****
111	25.17	1.52E+00	****	1.35E+00	****
112	25.42	1.56E+00	****	1.34E+00	****
113	25.66	1.61E+00	****	1.34E+00	****
114	25.91	1.67E+00	****	1.33E+00	****
115	26.16	1.65E+00	****	1.28E+00	****
116	26.40	1.61E+00	****	1.28E+00	****
117	26.65	1.63E+00	****	1.30E+00	****
118	26.89	1.59E+00	****	1.30E+00	****
119	27.14	1.62E+00	****	1.53E+00	****
120	27.39	1.55E+00	****	1.54E+00	****
121	27.63	1.53E+00	****	1.23E+00	****
122	27.88	1.60E+00	****	1.21E+00	****
123	28.12	1.60E+00	****	1.14E+00	****
124	28.37	1.63E+00	****	1.18E+00	****
125	28.61	1.57E+00	****	1.14E+00	****
126	28.86	1.54E+00	****	1.13E+00	****
127	29.11	1.65E+00	****	1.18E+00	****
128	29.35	1.52E+00	****	1.10E+00	****
129	29.60	1.58E+00	****	1.15E+00	****
130	29.84	1.63E+00	****	1.30E+00	****
131	30.09	1.37E+00	****	7.76E-01	****
132	30.34	1.93E+00	****	1.74E+00	****
133	30.58	1.80E+00	****	1.96E+00	****
134	30.83	1.74E+00	****	2.01E+00	****
135	31.07	1.91E+00	****	2.05E+00	****
136	31.32	1.98E+00	****	2.03E+00	****
137	31.57	2.03E+00	****	2.00E+00	****
138	31.81	2.09E+00	****	1.98E+00	****
139	32.06	2.17E+00	****	2.09E+00	****
140	32.30	2.16E+00	****	1.98E+00	****
141	32.55	2.22E+00	****	1.89E+00	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	2.26E+00	****	1.98E+00	****
143	33.04	2.28E+00	****	2.02E+00	****
144	33.29	2.52E+00	****	2.12E+00	****
145	33.53	2.46E+00	****	2.11E+00	****
146	33.78	2.47E+00	****	2.08E+00	****
147	34.02	2.33E+00	****	2.02E+00	****
148	34.27	2.23E+00	****	1.98E+00	****
149	34.52	2.24E+00	****	1.93E+00	****
150	34.76	2.08E+00	****	1.88E+00	****
151	35.01	2.11E+00	****	1.88E+00	****
152	35.25	2.10E+00	****	1.86E+00	****
153	35.50	2.04E+00	****	1.84E+00	****
154	35.75	2.04E+00	****	1.86E+00	****
155	35.99	1.98E+00	****	1.90E+00	****
156	36.24	2.14E+00	****	2.02E+00	****
157	36.48	2.39E+00	****	2.23E+00	****
158	36.73	2.24E+00	****	2.15E+00	****
159	36.98	2.29E+00	****	2.18E+00	****
160	37.22	2.10E+00	****	2.10E+00	****
161	37.47	2.08E+00	****	2.01E+00	****
162	37.71	2.06E+00	****	2.01E+00	****
163	37.96	1.98E+00	****	1.98E+00	****
164	38.20	1.99E+00	****	1.84E+00	****
165	38.45	1.99E+00	****	1.88E+00	****
166	38.70	1.96E+00	****	1.88E+00	****
167	38.94	1.91E+00	****	1.84E+00	****
168	39.19	1.94E+00	****	1.84E+00	****
169	39.43	2.19E+00	****	2.04E+00	****
170	39.68	2.60E+00	****	2.05E+00	****
171	39.93	4.05E+00	****	1.97E+00	****
172	40.17	2.18E+00	****	1.98E+00	****
173	40.42	2.25E+00	****	1.99E+00	****
174	40.66	2.14E+00	****	1.95E+00	****
175	40.91	2.16E+00	****	1.97E+00	****
176	41.16	2.09E+00	****	1.87E+00	****
177	41.40	2.05E+00	****	1.82E+00	****
178	41.65	2.07E+00	****	1.86E+00	****
179	41.89	2.03E+00	****	1.84E+00	****
180	42.14	2.05E+00	****	1.97E+00	****
181	42.39	2.19E+00	****	2.26E+00	****
182	42.63	2.48E+00	****	2.22E+00	****
183	42.88	2.60E+00	****	2.18E+00	****
184	43.12	2.48E+00	****	2.12E+00	****
185	43.37	2.46E+00	****	2.09E+00	****
186	43.61	2.47E+00	****	2.11E+00	****
187	43.86	2.29E+00	****	2.06E+00	****
188	44.11	2.41E+00	****	2.06E+00	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	2.46E+00	****	2.05E+00	****
190	44.60	2.35E+00	****	2.00E+00	****
191	44.84	2.35E+00	****	2.00E+00	****
192	45.09	2.26E+00	****	1.97E+00	****
193	45.34	2.39E+00	****	2.39E+00	****
194	45.58	2.70E+00	****	2.34E+00	****
195	45.83	2.67E+00	****	2.14E+00	****
196	46.07	2.69E+00	****	2.13E+00	****
197	46.32	2.60E+00	****	2.12E+00	****
198	46.57	2.61E+00	****	2.12E+00	****
199	46.81	2.63E+00	****	2.12E+00	****
200	47.06	2.52E+00	****	2.10E+00	****
201	47.30	2.58E+00	****	2.06E+00	****
202	47.55	2.40E+00	****	1.99E+00	****
203	47.79	2.30E+00	****	1.95E+00	****
204	48.04	2.21E+00	****	1.90E+00	****
205	48.29	2.10E+00	****	2.02E+00	****
206	48.53	2.41E+00	****	2.32E+00	****
207	48.78	2.61E+00	****	2.13E+00	****
208	49.02	2.45E+00	****	2.02E+00	****
209	49.27	2.42E+00	****	2.03E+00	****
210	49.52	2.36E+00	****	1.92E+00	****
211	49.76	2.37E+00	****	1.80E+00	****
212	50.01	2.39E+00	****	1.81E+00	****
213	50.25	2.23E+00	****	1.72E+00	****
214	50.50	2.15E+00	****	1.67E+00	****
215	50.75	2.12E+00	****	1.60E+00	****
216	50.99	1.90E+00	****	1.54E+00	****
217	51.24	1.86E+00	****	1.60E+00	****
218	51.48	1.93E+00	****	1.76E+00	****
219	51.73	2.15E+00	****	1.64E+00	****
220	51.98	2.05E+00	****	1.52E+00	****
221	52.22	1.87E+00	****	1.48E+00	****
222	52.47	1.89E+00	****	1.51E+00	****
223	52.71	1.80E+00	****	1.51E+00	****
224	52.96	1.75E+00	****	1.41E+00	****
225	53.20	1.71E+00	****	1.44E+00	****
226	53.45	1.69E+00	****	1.34E+00	****
227	53.70	1.60E+00	****	1.45E+00	****
228	53.94	1.57E+00	****	1.32E+00	****
229	54.19	1.47E+00	****	1.33E+00	****
230	54.43	1.48E+00	****	1.46E+00	****
231	54.68	1.56E+00	****	1.59E+00	****
232	54.93	1.71E+00	****	1.63E+00	****
233	55.17	1.77E+00	****	1.59E+00	****
234	55.42	1.71E+00	****	1.52E+00	****
235	55.66	1.70E+00	****	1.57E+00	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	1.78E+00	****	1.51E+00	****
237	56.16	1.66E+00	****	1.50E+00	****
238	56.40	1.66E+00	****	1.54E+00	****
239	56.65	1.61E+00	****	1.42E+00	****
240	56.89	1.53E+00	****	1.48E+00	****
241	57.14	1.46E+00	****	1.35E+00	****
242	57.39	1.44E+00	****	1.66E+00	****
243	57.63	1.53E+00	****	1.83E+00	****
244	57.88	1.59E+00	****	1.79E+00	****
245	58.12	1.68E+00	****	1.84E+00	****
246	58.37	1.80E+00	****	1.87E+00	****
247	58.61	1.85E+00	****	1.85E+00	****
248	58.86	1.94E+00	****	1.87E+00	****
249	59.11	1.95E+00	****	1.77E+00	****
250	59.35	1.91E+00	****	1.77E+00	****
251	59.60	1.84E+00	****	1.62E+00	****
252	59.84	1.70E+00	****	1.49E+00	****
253	60.09	5.10E-01	****	1.03E+00	27.6
254	60.34	1.25E+00	****	1.41E+00	****
255	60.58	1.43E+00	****	1.63E+00	****
256	60.83	1.50E+00	****	1.66E+00	****
257	61.07	1.59E+00	****	1.68E+00	****
258	61.32	1.58E+00	****	1.48E+00	****
259	61.57	1.46E+00	****	1.43E+00	****
260	61.81	1.45E+00	****	1.35E+00	****
261	62.06	1.30E+00	****	1.51E-01	****
262	62.30	1.15E+00	****	1.43E-01	****
263	62.55	1.05E+00	****	1.29E-01	****
264	62.79	1.02E+00	****	1.32E-01	****
265	63.04	1.00E+00	****	1.44E-01	****
266	63.29	9.95E-01	****	1.53E-01	****
267	63.53	9.49E-01	****	1.73E-01	****
268	63.78	9.41E-01	****	1.76E-01	****
269	64.02	8.78E-01	****	1.62E-01	****
270	64.27	8.79E-01	****	1.60E-01	****
271	64.52	8.46E-01	****	1.48E-01	****
272	64.76	7.68E-01	****	1.35E-01	****
273	65.01	7.60E-01	****	1.25E-01	****
274	65.25	7.03E-01	****	1.11E-01	****
275	65.50	6.96E-01	****	1.04E-01	****
276	65.75	6.91E-01	****	9.51E-02	****
277	65.99	6.76E-01	****	1.01E-01	****
278	66.24	6.60E-01	****	1.04E-01	****
279	66.48	7.89E-01	****	1.08E-01	****
280	66.73	8.27E-01	****	1.12E-01	****
281	66.98	8.14E-01	****	1.14E-01	****
282	67.22	7.32E-01	****	1.09E-01	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	7.22E-01	****	1.09E-01	****
284	67.71	6.80E-01	****	1.04E-01	****
285	67.96	6.36E-01	****	1.00E-01	****
286	68.20	6.08E-01	****	9.60E-02	****
287	68.45	5.76E-01	****	9.01E-02	****
288	68.70	5.57E-01	****	8.58E-02	****
289	68.94	5.74E-01	****	8.70E-02	****
290	69.19	5.56E-01	****	8.87E-02	****
291	69.43	5.71E-01	****	8.61E-02	****
292	69.68	6.54E-01	****	8.68E-02	****
293	69.93	6.09E-01	****	7.89E-02	****
294	70.17	5.73E-01	****	7.58E-02	****
295	70.42	5.18E-01	****	7.64E-02	****
296	70.66	5.00E-01	****	7.47E-02	****
297	70.91	4.90E-01	****	7.04E-02	****
298	71.16	4.62E-01	****	6.89E-02	****
299	71.40	4.51E-01	****	6.29E-02	****
300	71.65	4.35E-01	****	6.18E-02	****
301	71.89	4.24E-01	****	6.31E-02	****
302	72.14	4.30E-01	****	6.78E-02	****
303	72.38	4.72E-01	****	6.82E-02	****
304	72.63	7.04E-01	****	6.79E-02	****
305	72.88	4.78E-01	****	6.76E-02	****
306	73.12	6.16E-01	****	6.48E-02	****
307	73.37	6.16E-01	****	6.46E-02	****
308	73.61	5.63E-01	****	5.98E-02	****
309	73.86	5.54E-01	****	5.55E-02	****
310	74.11	5.08E-01	****	5.41E-02	****
311	74.35	4.64E-01	****	5.21E-02	****
312	74.60	4.36E-01	****	1.33E-02	****
313	74.84	4.12E-01	****	1.29E-02	****
314	75.09	3.90E-01	****	1.26E-02	****
315	75.34	2.30E-01	****	1.17E-02	****
316	75.58	2.18E-01	****	1.07E-02	****
317	75.83	2.35E-01	****	5.68E-02	****
318	76.07	2.06E-01	****	4.84E-02	****
319	76.32	1.64E-01	****	4.33E-02	****
320	76.57	1.43E-01	****	4.27E-02	****
321	76.81	1.31E-01	****	3.58E-02	****
322	77.06	1.22E-01	****	3.45E-02	****
323	77.30	1.16E-01	****	3.17E-02	****
324	77.55	1.07E-01	****	3.14E-02	****
325	77.79	1.09E-01	****	2.98E-02	****
326	78.04	1.08E-01	****	2.79E-02	****
327	78.29	1.04E-01	****	2.66E-02	****
328	78.53	1.11E-01	****	2.79E-02	****
329	78.78	1.25E-01	****	3.19E-02	****

Table A-13 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	1.47E-01	****	3.43E-02	****
331	79.27	1.38E-01	****	3.09E-02	****
332	79.52	1.21E-01	****	2.85E-02	****
333	79.76	1.12E-01	****	7.41E-03	****
334	80.01	1.02E-01	****	6.82E-03	****
335	80.25	9.47E-02	****	6.27E-03	****
336	80.50	8.92E-02	****	5.68E-03	****
337	80.75	8.15E-02	****	5.00E-03	****
338	80.99	7.79E-02	****	4.51E-03	****
339	81.24	6.97E-02	****	4.27E-03	****
340	81.48	6.78E-02	****	4.01E-03	****
341	81.73	7.35E-02	****	1.89E-02	****
342	81.97	7.15E-02	****	2.02E-02	****
343	82.22	7.58E-02	****	1.90E-02	****
344	82.47	7.15E-02	****	1.83E-02	****
345	82.71	6.42E-02	****	1.79E-02	****
346	82.96	6.36E-02	****	1.61E-02	****
347	83.20	6.03E-02	****	1.61E-02	****
348	83.45	5.51E-02	****	1.49E-02	****
349	83.70	5.49E-02	****	1.33E-02	****
350	83.94	5.18E-02	****	1.25E-02	****
351	84.19	3.94E-02	****	3.29E-02	****
352	84.43	3.83E-02	****	2.54E-02	****
353	84.68	3.46E-02	****	2.51E-02	****
354	84.93	2.88E-02	****	7.19E-03	****
355	85.17	2.90E-02	****	5.93E-03	****
356	85.42	2.42E-02	****	5.13E-03	****
357	85.66	1.93E-02	****	4.24E-03	****
358	85.91	1.67E-02	****	3.62E-03	****
359	86.16	1.52E-02	****	3.10E-03	****
360	86.40	1.25E-02	****	2.85E-03	****
361	86.65	1.11E-02	****	2.66E-03	****
362	86.89	1.07E-02	****	2.56E-03	****
363	87.14	1.01E-02	****	2.47E-03	****
364	87.38	9.25E-03	****	2.57E-03	****
365	87.63	9.40E-03	****	2.75E-03	****
366	87.88	9.19E-03	****	2.96E-03	****
367	88.12	9.89E-03	****	3.18E-03	****
368	88.37	1.04E-02	****	3.44E-03	****
369	88.61	1.13E-02	****	3.81E-03	****
370	88.86	1.29E-02	****	4.58E-03	****
371	89.11	1.55E-02	****	5.20E-03	****
372	89.35	1.71E-02	****	5.85E-03	****
373	89.60	1.88E-02	****	6.22E-03	****
374	89.84	2.14E-02	****	6.53E-03	****

Table A-14. Axial distribution of ^{144}Ce in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	9.54E-03	****	4.55E-02	****
2	0.37	3.72E-02	****	2.51E-02	****
3	0.51	1.92E-02	****	2.13E-02	****
4	0.85	1.91E-02	****	2.25E-02	****
5	1.11	1.97E-02	****	2.57E-02	****
6	1.35	2.26E-02	****	3.66E-02	****
7	1.60	2.59E-02	****	3.44E-02	****
8	1.84	3.15E-02	****	3.96E-02	****
9	2.09	3.39E-02	****	3.97E-02	****
10	2.34	3.65E-02	****	4.36E-02	****
11	2.58	3.81E-02	****	4.54E-02	****
12	2.83	3.92E-02	****	4.77E-02	****
13	3.07	3.93E-02	****	5.02E-02	****
14	3.32	4.42E-02	****	5.24E-02	****
15	3.57	4.46E-02	****	5.41E-02	****
16	3.81	4.68E-02	****	5.76E-02	****
17	4.06	5.38E-02	****	6.34E-02	****
18	4.30	5.72E-02	****	6.82E-02	****
19	4.55	6.64E-02	****	7.23E-02	****
20	4.80	6.52E-02	****	7.77E-02	****
21	5.04	6.92E-02	****	8.26E-02	****
22	5.29	7.00E-02	****	8.89E-02	****
23	5.53	7.36E-02	****	9.72E-02	****
24	5.78	7.62E-02	****	1.06E-01	****
25	6.02	3.45E-02	****	1.14E-01	****
26	6.27	9.22E-02	****	1.14E-01	****
27	6.52	9.03E-02	****	1.16E-01	****
28	6.76	9.69E-02	****	1.45E-01	39.5
29	7.01	9.54E-02	****	1.32E-01	****
30	7.25	1.04E-01	****	1.39E-01	****
31	7.50	1.10E-01	****	1.43E-01	****
32	7.75	1.08E-01	****	2.17E-01	****
33	7.99	1.09E-01	****	2.18E-01	****
34	8.24	1.14E-01	****	2.28E-01	****
35	8.48	1.19E-01	****	2.36E-01	****
36	8.73	1.26E-01	****	2.46E-01	****
37	8.98	1.90E-01	****	2.52E-01	****
38	9.22	1.90E-01	****	2.59E-01	****
39	9.47	1.90E-01	****	2.50E-01	****
40	9.71	1.81E-01	****	2.55E-01	****
41	9.96	1.91E-01	****	2.69E-01	****
42	10.20	2.00E-01	****	2.70E-01	****
43	10.45	2.15E-01	****	2.85E-01	****
44	10.70	2.27E-01	****	3.07E-01	****
45	10.94	2.31E-01	****	3.10E-01	****
46	11.19	2.30E-01	****	3.12E-01	****
47	11.43	2.29E-01	****	3.20E-01	****
48	11.68	2.35E-01	****	3.28E-01	****
49	11.93	2.68E-01	38.1	3.39E-01	****
50	12.17	2.20E-01	****	3.53E-01	****
51	12.42	2.07E-01	****	3.60E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.05E-01	****	3.63E-01	****
53	12.71	2.04E-01	****	3.54E-01	****
54	13.16	2.09E-01	****	3.48E-01	****
55	13.40	2.06E-01	****	3.25E-01	****
56	13.65	2.04E-01	****	3.40E-01	****
57	13.89	2.01E-01	****	3.39E-01	****
58	14.14	2.08E-01	****	3.36E-01	****
59	14.39	2.08E-01	****	3.29E-01	****
60	14.63	2.15E-01	****	3.30E-01	****
61	14.83	2.14E-01	****	3.34E-01	****
62	15.12	2.26E-01	****	3.25E-01	****
63	15.37	2.26E-01	****	3.26E-01	****
64	15.61	2.19E-01	****	3.23E-01	****
65	15.86	2.03E-01	****	3.22E-01	****
66	16.11	2.06E-01	****	3.23E-01	****
67	16.35	2.15E-01	****	3.43E-01	****
68	16.60	2.40E-01	****	3.51E-01	****
69	16.84	2.55E-01	****	3.46E-01	****
70	17.09	2.57E-01	****	3.50E-01	****
71	17.34	2.67E-01	****	3.57E-01	****
72	17.58	2.74E-01	****	3.70E-01	****
73	17.83	2.82E-01	****	3.39E-01	****
74	18.07	2.84E-01	****	4.11E-01	****
75	18.32	3.30E-01	****	4.31E-01	****
76	18.57	3.75E-01	****	4.26E-01	****
77	18.81	3.34E-01	****	4.23E-01	****
78	19.06	3.76E-01	****	4.25E-01	****
79	19.30	3.84E-01	****	4.24E-01	****
80	19.55	3.30E-01	****	4.26E-01	****
81	19.79	3.90E-01	****	4.23E-01	****
82	20.04	4.21E-01	****	4.44E-01	****
83	20.29	4.39E-01	****	4.69E-01	****
84	20.53	4.65E-01	****	4.87E-01	****
85	20.78	4.89E-01	****	5.12E-01	****
86	21.02	7.53E-01	31.5	5.26E-01	****
87	21.27	5.35E-01	****	5.50E-01	****
88	21.52	5.69E-01	****	5.72E-01	****
89	21.76	5.96E-01	****	5.34E-01	****
90	22.01	6.13E-01	****	6.00E-01	****
91	22.25	6.31E-01	****	6.28E-01	****
92	22.50	6.49E-01	****	6.45E-01	****
93	22.75	6.60E-01	****	6.48E-01	****
94	22.99	6.62E-01	****	6.50E-01	****
95	23.24	6.58E-01	****	6.72E-01	****
96	23.48	6.58E-01	****	6.68E-01	****
97	23.73	6.50E-01	****	6.47E-01	****
98	23.98	6.38E-01	****	6.21E-01	****
99	24.22	8.33E-01	35.2	6.10E-01	****
100	24.47	6.43E-01	****	6.09E-01	****
101	24.71	6.62E-01	****	6.35E-01	****
102	24.96	6.86E-01	****	6.93E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	7.36E-01	****	7.32E-01	****
104	25.45	7.32E-01	****	7.58E-01	****
105	25.70	8.07E-01	****	7.51E-01	****
106	25.94	8.04E-01	****	7.30E-01	****
107	26.19	7.83E-01	****	6.87E-01	****
108	26.43	7.28E-01	****	6.39E-01	****
109	26.68	7.04E-01	****	6.37E-01	****
110	26.93	6.88E-01	****	6.35E-01	****
111	27.17	6.82E-01	****	6.38E-01	****
112	27.42	6.87E-01	****	6.02E-01	33.4
113	27.66	7.13E-01	****	6.66E-01	****
114	27.91	7.00E-01	****	6.49E-01	****
115	28.16	6.67E-01	****	6.19E-01	****
116	28.40	6.45E-01	****	6.07E-01	****
117	28.65	6.19E-01	****	5.60E-01	****
118	28.89	5.97E-01	****	5.43E-01	****
119	29.14	5.58E-01	****	5.24E-01	****
120	29.39	5.43E-01	****	5.01E-01	****
121	29.63	5.30E-01	****	5.03E-01	****
122	29.88	3.15E-01	****	9.23E-02	****
123	30.12	7.09E-01	****	2.36E-01	****
124	30.37	5.36E-01	****	8.76E-01	****
125	30.61	5.53E-01	****	7.17E-01	****
126	30.86	5.76E-01	****	6.36E-01	****
127	31.11	6.32E-01	****	5.51E-01	****
128	31.35	6.31E-01	****	6.94E-01	****
129	31.60	5.99E-01	****	6.74E-01	****
130	31.84	5.67E-01	****	6.35E-01	****
131	32.09	5.78E-01	****	6.11E-01	****
132	32.34	6.07E-01	****	6.00E-01	****
133	32.58	6.26E-01	****	6.06E-01	****
134	32.83	6.19E-01	****	5.99E-01	****
135	33.07	6.16E-01	****	5.79E-01	****
136	33.32	6.00E-01	****	5.42E-01	****
137	33.57	5.95E-01	****	5.62E-01	****
138	33.81	5.82E-01	****	5.60E-01	****
139	34.06	5.74E-01	****	5.27E-01	****
140	34.30	5.69E-01	****	5.46E-01	****
141	34.55	5.44E-01	****	5.50E-01	****
142	34.79	5.61E-01	****	5.51E-01	****
143	35.04	5.67E-01	****	5.59E-01	****
144	35.29	5.54E-01	****	5.57E-01	****
145	35.53	5.52E-01	****	5.49E-01	****
146	35.78	5.60E-01	****	5.50E-01	****
147	36.02	5.56E-01	****	5.54E-01	****
148	36.27	5.57E-01	****	5.52E-01	****
149	36.52	5.60E-01	****	5.34E-01	****
150	36.76	5.63E-01	****	5.56E-01	****
151	37.01	5.63E-01	****	5.55E-01	****
152	37.25	5.63E-01	****	5.58E-01	****
153	37.50	5.59E-01	****	5.53E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	5.44E-01	****	5.55E-01	****
155	37.99	5.47E-01	****	5.52E-01	****
156	38.24	5.40E-01	****	5.37E-01	****
157	38.48	5.36E-01	****	5.31E-01	****
158	38.73	5.42E-01	****	5.47E-01	****
159	38.98	5.38E-01	****	5.48E-01	****
160	39.22	5.19E-01	****	5.25E-01	****
161	39.47	5.09E-01	****	5.47E-01	****
162	39.71	5.05E-01	****	5.39E-01	****
163	39.96	4.97E-01	****	5.11E-01	****
164	40.20	4.70E-01	****	5.12E-01	****
165	40.45	4.60E-01	****	4.77E-01	****
166	40.70	4.41E-01	****	4.80E-01	****
167	40.94	4.20E-01	****	4.54E-01	****
168	41.19	4.10E-01	****	4.38E-01	****
169	41.43	4.01E-01	****	4.14E-01	****
170	41.68	3.96E-01	****	4.18E-01	****
171	41.93	4.00E-01	****	4.09E-01	****
172	42.17	4.01E-01	****	4.17E-01	****
173	42.42	3.93E-01	****	4.14E-01	****
174	42.66	3.98E-01	****	4.13E-01	****
175	42.91	3.94E-01	****	4.13E-01	****
176	43.16	3.91E-01	****	4.06E-01	****
177	43.40	3.97E-01	****	4.07E-01	****
178	43.65	3.99E-01	****	4.06E-01	****
179	43.89	4.08E-01	****	4.15E-01	****
180	44.14	5.64E-01	33.3	4.22E-01	****
181	44.39	4.10E-01	****	4.22E-01	****
182	44.63	4.03E-01	****	4.16E-01	****
183	44.88	3.99E-01	****	4.14E-01	****
184	45.12	3.82E-01	****	4.13E-01	****
185	45.37	3.88E-01	****	4.09E-01	****
186	45.61	3.84E-01	****	4.06E-01	****
187	45.86	3.88E-01	****	4.00E-01	****
188	46.11	3.72E-01	****	3.95E-01	****
189	46.35	3.62E-01	****	3.92E-01	****
190	46.60	3.45E-01	****	3.76E-01	****
191	46.84	3.28E-01	****	3.61E-01	****
192	47.09	3.19E-01	****	3.43E-01	****
193	47.34	3.07E-01	****	3.24E-01	****
194	47.58	3.00E-01	****	3.13E-01	****
195	47.83	2.85E-01	****	3.13E-01	****
196	48.07	2.78E-01	****	2.98E-01	****
197	48.32	2.74E-01	****	2.85E-01	****
198	48.57	2.68E-01	****	2.61E-01	****
199	48.81	2.68E-01	****	2.74E-01	****
200	49.06	2.64E-01	****	2.61E-01	****
201	49.30	2.65E-01	****	2.61E-01	****
202	49.55	2.59E-01	****	2.55E-01	****
203	49.79	2.46E-01	****	2.54E-01	****
204	50.04	2.55E-01	****	2.43E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	2.55E-01	****	2.51E-01	****
206	50.53	2.50E-01	****	2.43E-01	****
207	50.78	2.46E-01	****	2.40E-01	****
208	51.02	2.35E-01	****	2.42E-01	****
209	51.27	2.28E-01	****	2.33E-01	****
210	51.52	2.18E-01	****	2.27E-01	****
211	51.76	2.19E-01	****	2.27E-01	****
212	52.01	2.24E-01	****	2.21E-01	****
213	52.25	2.17E-01	****	2.15E-01	****
214	52.50	2.11E-01	****	2.16E-01	****
215	52.75	2.09E-01	****	2.11E-01	****
216	52.99	2.07E-01	****	2.02E-01	****
217	53.24	2.04E-01	****	2.02E-01	****
218	53.48	1.99E-01	****	2.03E-01	****
219	53.73	2.05E-01	****	2.02E-01	****
220	53.98	1.99E-01	****	1.96E-01	****
221	54.22	2.01E-01	****	1.97E-01	****
222	54.47	1.95E-01	****	1.95E-01	****
223	54.71	1.96E-01	****	2.00E-01	****
224	54.96	1.98E-01	****	1.97E-01	****
225	55.20	2.01E-01	****	1.91E-01	****
226	55.45	1.99E-01	****	2.03E-01	****
227	55.70	1.99E-01	****	1.97E-01	****
228	55.94	1.98E-01	****	1.96E-01	****
229	56.19	1.98E-01	****	1.97E-01	****
230	56.43	2.01E-01	****	1.94E-01	****
231	56.68	2.05E-01	****	1.93E-01	****
232	56.93	2.04E-01	****	1.86E-01	****
233	57.17	2.04E-01	****	1.92E-01	****
234	57.42	2.03E-01	****	1.77E-01	****
235	57.66	2.01E-01	****	1.84E-01	****
236	57.91	2.04E-01	****	1.89E-01	****
237	58.16	2.11E-01	****	1.92E-01	****
238	58.40	2.23E-01	****	2.05E-01	****
239	58.65	2.27E-01	****	2.06E-01	****
240	58.89	2.45E-01	****	2.13E-01	****
241	59.14	3.09E-01	****	1.82E-01	****
242	59.39	2.81E-01	****	3.19E-01	****
243	59.63	2.65E-01	****	2.71E-01	****
244	59.88	2.33E-01	****	2.36E-01	****
245	60.12	2.33E-01	****	2.21E-01	****
246	60.37	2.22E-01	****	2.12E-01	****
247	60.61	2.15E-01	****	2.05E-01	****
248	60.86	2.04E-01	****	1.99E-01	****
249	61.11	1.94E-01	****	1.19E-01	****
250	61.35	1.08E-01	****	1.11E-01	****
251	61.60	1.04E-01	****	1.09E-01	****
252	61.84	9.71E-02	****	1.05E-01	****
253	62.09	8.99E-02	****	1.06E-01	****
254	62.34	8.65E-02	****	1.05E-01	****
255	62.58	8.68E-02	****	1.05E-01	****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.33	8.25E-02	*****	1.02E-01	*****
257	63.07	7.99E-02	*****	9.96E-02	*****
258	63.32	8.04E-02	*****	9.73E-02	*****
259	63.57	7.81E-02	*****	9.48E-02	*****
260	63.81	7.80E-02	*****	9.42E-02	*****
261	64.06	7.94E-02	*****	9.26E-02	*****
262	64.30	7.67E-02	*****	9.13E-02	*****
263	64.55	7.61E-02	*****	9.02E-02	*****
264	64.79	8.21E-02	*****	8.87E-02	*****
265	65.04	7.78E-02	*****	8.81E-02	*****
266	65.29	7.70E-02	*****	8.99E-02	*****
267	65.53	8.05E-02	*****	9.09E-02	*****
268	65.78	7.70E-02	*****	9.30E-02	*****
269	66.02	7.72E-02	*****	9.40E-02	*****
270	66.27	7.73E-02	*****	9.32E-02	*****
271	66.52	7.63E-02	*****	9.17E-02	*****
272	66.76	7.56E-02	*****	9.02E-02	*****
273	67.01	7.74E-02	*****	8.96E-02	*****
274	67.25	7.44E-02	*****	8.65E-02	*****
275	67.50	7.14E-02	*****	8.32E-02	*****
276	67.75	7.02E-02	*****	7.60E-02	*****
277	67.99	7.26E-02	*****	7.15E-02	*****
278	68.24	7.94E-02	*****	7.04E-02	*****
279	68.48	7.51E-02	*****	7.51E-02	*****
280	68.73	6.99E-02	*****	7.77E-02	*****
281	68.98	6.55E-02	*****	6.66E-02	*****
282	69.22	6.46E-02	*****	6.17E-02	*****
283	69.47	6.54E-02	*****	6.19E-02	*****
284	69.71	6.48E-02	*****	6.36E-02	*****
285	69.96	6.35E-02	*****	5.87E-02	*****
286	70.20	6.40E-02	*****	5.81E-02	*****
287	70.45	6.37E-02	*****	5.71E-02	*****
288	70.70	6.33E-02	*****	5.82E-02	*****
289	70.94	6.09E-02	*****	5.91E-02	*****
290	71.19	5.94E-02	*****	5.45E-02	*****
291	71.43	5.97E-02	*****	5.36E-02	*****
292	71.68	5.76E-02	*****	5.32E-02	*****
293	71.93	5.74E-02	*****	5.11E-02	*****
294	72.17	5.59E-02	*****	5.00E-02	*****
295	72.42	5.48E-02	*****	4.78E-02	*****
296	72.66	5.35E-02	*****	4.59E-02	*****
297	72.91	4.91E-02	*****	4.36E-02	*****
298	73.16	4.85E-02	*****	4.31E-02	*****
299	73.40	4.54E-02	*****	4.11E-02	*****
300	73.65	3.96E-02	*****	3.90E-02	*****
301	73.89	3.46E-02	*****	3.60E-02	*****
302	74.14	2.87E-02	*****	3.17E-02	*****
303	74.38	2.42E-02	*****	2.65E-02	*****
304	74.63	2.04E-02	*****	2.37E-02	*****
305	74.88	1.93E-02	*****	2.19E-02	*****
306	75.12	1.77E-02	*****	2.06E-02	*****

Table A-14 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	1.72E-02	*****	1.90E-02	*****
308	75.61	1.55E-02	*****	1.76E-02	*****
309	75.86	1.52E-02	*****	1.68E-02	*****
310	76.11	1.48E-02	*****	1.62E-02	*****
311	76.35	1.46E-02	*****	1.55E-02	*****
312	76.60	1.50E-02	*****	1.54E-02	*****
313	76.84	1.57E-02	*****	1.51E-02	*****
314	77.09	1.64E-02	*****	1.61E-02	*****
315	77.34	1.65E-02	*****	1.70E-02	*****
316	77.58	1.61E-02	*****	1.66E-02	*****
317	77.83	1.59E-02	*****	1.59E-02	*****
318	78.07	1.45E-02	*****	1.58E-02	*****
319	78.32	1.36E-02	*****	1.51E-02	*****
320	78.57	1.34E-02	*****	1.40E-02	*****
321	78.81	1.25E-02	*****	1.02E-02	*****
322	79.06	1.19E-02	*****	9.49E-03	*****
323	79.30	7.40E-03	*****	9.19E-03	*****
324	79.55	7.19E-03	*****	8.93E-03	*****
325	79.79	7.24E-03	*****	8.76E-03	*****
326	80.04	8.04E-03	*****	8.84E-03	*****
327	80.29	9.22E-03	*****	1.11E-02	*****
328	80.53	9.45E-03	*****	1.43E-02	*****
329	80.78	9.78E-03	*****	1.95E-02	*****
330	81.02	9.84E-03	*****	1.95E-02	*****
331	81.27	1.10E-02	*****	2.11E-02	*****
332	81.52	1.14E-02	*****	2.30E-02	*****
333	81.76	1.17E-02	*****	2.37E-02	*****
334	82.01	1.12E-02	*****	2.28E-02	*****
335	82.25	1.09E-02	*****	2.39E-02	*****
336	82.50	9.42E-03	*****	2.17E-02	*****
337	82.75	7.67E-03	*****	1.96E-02	*****
338	82.99	6.61E-03	*****	1.58E-02	*****
339	83.24	6.48E-03	*****	1.41E-02	*****
340	83.48	5.60E-03	*****	1.51E-02	*****
341	83.73	4.76E-03	*****	1.42E-02	*****
342	83.97	4.14E-03	*****	6.51E-03	*****
343	84.22	3.51E-03	*****	5.64E-03	*****
344	84.47	3.09E-03	*****	4.94E-03	*****
345	84.71	2.51E-03	*****	4.07E-03	*****
346	84.96	2.29E-03	*****	3.04E-03	*****
347	85.20	2.07E-03	*****	2.63E-03	*****
348	85.45	1.94E-03	*****	2.38E-03	*****
349	85.70	1.87E-03	*****	2.19E-03	*****
350	85.94	1.80E-03	*****	2.00E-03	*****
351	86.19	1.44E-03	*****	1.98E-03	*****
352	86.43	1.51E-03	*****	1.74E-03	*****
353	86.68	1.54E-03	*****	1.64E-03	*****
354	86.93	1.43E-03	*****	1.66E-03	*****
355	87.17	1.50E-03	*****	1.39E-03	*****
356	87.42	1.52E-03	*****	1.35E-03	*****
357	87.66	1.64E-03	33.9	1.37E-03	*****
358	87.91	1.66E-03	*****	1.65E-03	*****

Table A-15. Axial distribution of ^{154}Eu in the sleeve of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/ 3 in.)	Error (%)
1	1.88	3.16E-03	2.2	1.45E-03	3.5
2	1.63	1.86E-03	2.9	1.20E-03	3.9
3	1.39	1.57E-03	3.1	1.00E-03	4.4
4	1.14	1.59E-03	3.0	1.14E-03	4.2
5	0.89	1.38E-03	3.3	1.62E-03	3.4
6	0.65	1.59E-03	3.2	1.15E-03	5.4
7	0.40	1.50E-03	4.9	9.94E-04	7.2
8	0.16	1.76E-03	6.6	1.04E-03	4.0
9	0.09	1.30E-03	7.0	9.22E-04	5.2
10	0.34	1.08E-03	7.4	1.09E-03	3.7
11	0.58	1.10E-03	6.5	1.37E-03	3.2
12	0.83	1.19E-03	6.5	1.02E-03	3.8
13	1.07	8.31E-04	9.1	6.50E-04	4.9
14	1.32	9.54E-04	7.6	5.79E-04	5.3
15	1.57	9.70E-04	7.2	5.16E-04	5.7
16	1.81	7.26E-04	8.9	5.21E-04	5.7
17	2.06	6.72E-04	9.4	4.36E-04	6.7
18	2.30	8.49E-04	8.2	4.67E-04	6.8
19	2.55	7.01E-04	9.0	4.62E-04	6.9
20	2.80	5.25E-04	11.7	3.80E-04	8.2
21	3.04	6.72E-04	9.2	6.06E-04	5.3
22	3.29	7.06E-04	9.5	5.97E-04	5.5
23	3.53	8.33E-04	8.2	5.48E-04	6.0
24	3.78	8.21E-04	8.4	5.91E-04	5.9
25	4.02	7.75E-04	8.9	5.43E-04	6.6
26	4.27	8.01E-04	8.6	5.07E-04	7.1
27	4.52	7.78E-04	9.4	5.21E-04	7.4
28	4.76	7.11E-04	9.1	4.81E-04	9.5
29	5.01	9.45E-04	7.6	3.71E-04	13.3
30	5.25	9.36E-04	8.1	4.56E-04	17.3
31	5.50	8.22E-04	11.3	4.54E-04	19.6
32	5.75	1.10E-03	12.3	4.14E-04	23.9
33	5.99	1.20E-03	11.0	6.20E-04	13.1
34	6.24	9.90E-04	8.6	6.50E-04	10.8
35	6.48	7.98E-04	9.4	7.04E-04	10.3
36	6.73	1.12E-03	6.8	8.68E-04	9.7
37	6.98	1.07E-03	7.4	6.68E-04	10.8
38	7.22	7.91E-04	10.0	7.37E-04	9.9
39	7.47	1.02E-03	7.9	6.35E-04	12.0
40	7.71	9.74E-04	8.5	7.05E-04	10.8
41	7.96	1.04E-03	8.0	8.31E-04	9.6
42	8.20	1.03E-03	8.3	2.24E-04	38.5
43	8.45	1.34E-03	7.2	9.55E-04	10.8
44	8.70	1.83E-03	7.4	6.54E-04	16.8
45	8.94	1.46E-03	9.4	3.51E-03	****
46	9.19	1.04E-03	10.9	9.05E-04	13.4
47	9.43	1.57E-03	7.3	1.20E-03	10.1

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
48	9.68	1.89E-03	5.8	1.25E-03	10.0
49	9.93	1.88E-03	6.4	1.48E-03	8.6
50	10.17	1.99E-03	6.2	1.18E-03	10.3
51	10.42	1.91E-03	6.4	1.12E-03	12.2
52	10.66	1.83E-03	6.5	1.05E-03	12.8
53	10.91	1.87E-03	6.5	1.70E-03	9.0
54	11.16	2.13E-03	6.4	1.36E-03	11.4
55	11.40	2.93E-03	5.4	1.54E-03	12.3
56	11.65	3.41E-03	5.1	1.77E-03	12.7
57	11.89	2.75E-03	6.4	1.09E-03	17.8
58	12.14	3.81E-03	5.4	1.80E-03	10.7
59	12.39	3.14E-03	6.7	2.25E-03	9.5
60	12.63	3.92E-03	6.1	2.98E-03	8.0
61	12.88	5.28E-03	5.3	2.12E-02	8.6
62	13.12	5.44E-03	9.0	4.33E-03	10.2
63	13.37	7.25E-03	7.7	4.83E-03	9.5
64	13.61	6.03E-03	8.1	3.70E-03	10.9
65	13.86	6.10E-03	8.3	4.23E-03	11.7
66	14.11	5.14E-03	9.3	5.10E-03	8.9
67	14.35	4.31E-03	11.2	3.58E-03	13.0
68	14.60	4.25E-03	12.2	4.49E-03	10.7
69	14.84	6.75E-03	8.6	4.95E-03	11.1
70	15.09	5.69E-03	9.6	5.18E-03	9.8
71	15.34	5.17E-03	9.3	4.64E-03	9.3
72	15.58	6.24E-03	7.6	4.16E-03	10.0
73	15.83	6.09E-03	7.3	4.86E-03	9.5
74	16.07	5.83E-03	8.1	3.97E-03	10.4
75	16.32	6.18E-03	7.9	5.35E-03	9.1
76	16.57	5.52E-03	9.4	4.50E-03	10.3
77	16.81	6.11E-03	7.9	5.19E-03	10.6
78	17.06	6.94E-03	8.1	6.20E-03	9.4
79	17.30	8.48E-03	6.9	5.73E-03	10.8
80	17.55	6.46E-03	10.1	3.51E-03	19.7
81	17.79	7.66E-03	8.9	5.34E-03	14.5
82	18.04	8.75E-03	9.3	3.80E-03	23.1
83	18.29	5.24E-03	14.5	4.03E-03	17.2
84	18.53	8.26E-03	10.0	4.62E-03	17.1
85	18.78	1.09E-02	7.7	6.71E-03	12.6
86	19.02	1.06E-02	8.1	6.43E-03	13.7
87	19.27	1.08E-02	8.3	1.06E-02	10.2
88	19.52	9.33E-03	10.5	7.03E-03	14.6
89	19.76	9.95E-03	10.0	6.92E-03	15.2
90	20.01	1.02E-02	11.7	6.53E-03	17.1
91	20.25	8.62E-03	14.7	1.13E-02	12.1
92	20.50	1.36E-02	8.7	8.40E-03	14.3
93	20.75	1.36E-02	9.5	8.16E-03	15.8
94	20.99	1.27E-02	11.7	8.10E-03	18.2

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
95	21.24	6.22E-03	21.0	8.03E-03	19.5
96	21.48	1.47E-02	8.7	5.84E-03	18.7
97	21.73	1.00E-02	12.6	9.15E-03	13.6
98	21.98	1.05E-02	12.3	3.67E-03	28.9
99	22.22	1.28E-02	10.7	6.21E-03	19.6
100	22.47	1.47E-02	10.6	7.71E-03	15.0
101	22.71	1.27E-02	11.0	7.45E-03	17.5
102	22.96	1.22E-02	14.1	6.57E-03	19.5
103	23.20	8.38E-03	17.8	1.20E-02	12.2
104	23.45	8.94E-03	17.6	1.05E-02	12.7
105	23.70	1.14E-02	15.3	7.03E-03	19.0
106	23.94	1.22E-02	19.3	6.64E-03	22.5
107	24.19	1.23E-02	18.0	6.50E-03	31.5
108	24.43	1.46E-02	12.8	7.10E-03	20.3
109	24.68	5.42E-03	28.8	7.30E-03	19.0
110	24.93	1.17E-02	16.4	4.68E-03	27.3
111	25.17	1.36E-02	14.0	5.00E-03	26.1
112	25.42	1.42E-02	13.4	1.12E-02	14.5
113	25.66	7.22E-03	28.6	9.98E-03	16.2
114	25.91	9.05E-03	23.2	8.96E-03	18.8
115	26.16	1.00E-02	20.2	7.90E-03	18.9
116	26.40	6.93E-03	23.0	9.30E-03	16.2
117	26.65	1.27E-02	16.0	1.09E-02	13.0
118	26.89	1.24E-02	16.0	6.04E-03	23.1
119	27.14	1.71E-02	11.1	1.19E-02	15.0
120	27.39	1.83E-02	10.9	9.63E-03	17.6
121	27.63	2.71E-02	7.7	1.19E-02	12.1
122	27.88	2.72E-02	8.2	1.33E-02	10.8
123	28.12	2.18E-02	9.7	1.53E-02	8.8
124	28.37	1.95E-02	10.6	2.15E-02	6.9
125	28.61	2.58E-02	8.2	2.12E-02	7.2
126	28.86	2.13E-02	9.4	1.87E-02	8.0
127	29.11	1.19E-02	16.1	2.05E-02	7.6
128	29.35	1.37E-02	12.8	1.59E-02	8.5
129	29.60	1.52E-02	14.2	1.79E-02	8.1
130	29.84	9.71E-03	22.9	1.12E-02	13.1
131	30.09	5.53E-01	0.9	2.85E-01	1.1
132	30.34	5.83E-02	5.2	8.59E-02	3.6
133	30.58	4.87E-02	5.4	3.86E-02	7.2
134	30.83	3.09E-02	7.8	4.92E-02	5.7
135	31.07	3.70E-02	7.0	6.99E-02	4.6
136	31.32	4.82E-02	6.1	6.04E-02	5.1
137	31.57	4.60E-02	6.5	6.56E-02	5.3
138	31.81	4.39E-02	7.2	6.89E-02	4.6
139	32.06	5.32E-02	6.2	4.58E-02	7.0
140	32.30	3.17E-02	9.6	6.23E-02	4.9
141	32.55	4.46E-02	7.5	6.15E-02	4.7

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
142	32.79	7.21E-02	5.0	8.04E-02	4.1
143	33.04	4.03E-02	8.1	8.28E-02	4.2
144	33.29	5.77E-02	6.9	6.72E-02	5.0
145	33.53	1.21E-01	3.7	1.24E-01	3.2
146	33.78	1.34E-01	3.6	1.19E-01	3.2
147	34.02	1.15E-01	3.9	1.74E-01	2.4
148	34.27	1.35E-01	3.5	1.49E-01	2.6
149	34.52	1.43E-01	3.0	1.34E-01	2.8
150	34.76	1.20E-01	3.3	1.33E-01	2.7
151	35.01	1.20E-01	3.3	1.33E-01	2.8
152	35.25	1.47E-01	2.8	1.20E-01	3.0
153	35.50	1.17E-01	3.2	1.07E-01	3.2
154	35.75	1.37E-01	2.9	1.25E-01	2.9
155	35.99	1.15E-01	3.2	1.25E-01	2.9
156	36.24	8.36E-02	4.5	6.49E-02	4.7
157	36.48	6.74E-02	5.5	5.40E-02	6.1
158	36.73	1.42E-01	3.1	1.80E-01	2.5
159	36.98	1.26E-01	3.4	1.35E-01	3.1
160	37.22	1.35E-01	3.0	1.49E-01	2.8
161	37.47	1.56E-01	2.7	1.48E-01	2.7
162	37.71	1.22E-01	3.4	1.29E-01	3.0
163	37.96	1.47E-01	2.6	1.39E-01	2.8
164	38.20	1.48E-01	2.6	1.20E-01	2.9
165	38.45	1.14E-01	3.3	1.24E-01	2.9
166	38.70	1.39E-01	2.8	1.32E-01	2.8
167	38.94	1.38E-01	2.7	1.27E-01	2.9
168	39.19	1.09E-01	3.3	1.97E-01	2.1
169	39.43	4.70E-02	6.9	8.28E-02	4.2
170	39.68	8.88E-02	5.1	9.00E-02	3.8
171	39.93	9.70E-02	7.5	8.01E-02	4.1
172	40.17	1.44E-01	3.0	8.72E-02	3.8
173	40.42	1.10E-01	3.7	8.36E-02	4.1
174	40.66	1.45E-01	2.8	8.61E-02	3.9
175	40.91	1.64E-01	2.7	1.10E-01	3.2
176	41.16	1.42E-01	2.9	1.35E-01	2.7
177	41.40	1.74E-01	2.4	1.20E-01	2.9
178	41.65	1.37E-01	3.0	1.40E-01	2.6
179	41.89	2.03E-01	2.2	1.20E-01	2.9
180	42.14	2.39E-01	2.0	1.14E-01	3.2
181	42.39	2.36E-01	2.1	4.11E-02	8.0
182	42.63	5.72E-02	6.8	2.35E-01	2.1
183	42.88	2.17E-01	2.6	2.86E-01	1.9
184	43.12	1.75E-01	2.9	2.68E-01	1.9
185	43.37	1.78E-01	2.9	2.50E-01	2.0
186	43.61	1.28E-01	3.8	2.48E-01	2.0
187	43.86	1.86E-01	2.7	2.49E-01	2.0
188	44.11	1.83E-01	2.8	2.59E-01	1.9

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
189	44.35	1.67E-01	3.0	2.43E-01	2.0
190	44.60	1.78E-01	2.7	2.49E-01	1.9
191	44.84	1.43E-01	3.3	2.53E-01	1.9
192	45.09	1.84E-01	2.6	2.96E-01	1.7
193	45.34	1.98E-01	2.6	2.59E-01	2.1
194	45.58	9.20E-02	5.0	1.11E-01	4.0
195	45.83	1.11E-01	4.5	2.04E-01	2.4
196	46.07	2.01E-01	3.0	2.32E-01	2.1
197	46.32	2.05E-01	2.8	2.44E-01	2.0
198	46.57	1.80E-01	3.0	1.92E-01	2.4
199	46.81	1.88E-01	2.9	2.04E-01	2.3
200	47.06	1.49E-01	3.5	1.91E-01	2.4
201	47.30	1.92E-01	2.8	1.84E-01	2.4
202	47.55	1.77E-01	2.9	1.93E-01	2.3
203	47.79	2.06E-01	2.4	1.97E-01	2.2
204	48.04	2.59E-01	2.0	2.60E-01	1.8
205	48.29	3.23E-01	1.7	1.90E-01	2.3
206	48.53	2.54E-01	2.2	1.13E-01	3.9
207	48.78	1.17E-01	4.3	2.75E-01	1.9
208	49.02	2.53E-01	2.3	2.68E-01	1.8
209	49.27	2.42E-01	2.3	2.26E-01	2.1
210	49.52	2.13E-01	2.5	2.53E-01	1.9
211	49.76	2.32E-01	2.3	2.52E-01	1.8
212	50.01	2.19E-01	2.5	2.10E-01	2.0
213	50.25	2.47E-01	2.1	2.28E-01	1.8
214	50.50	2.36E-01	2.1	2.43E-01	1.7
215	50.75	2.63E-01	1.9	2.54E-01	1.6
216	50.99	2.81E-01	1.8	2.95E-01	1.5
217	51.24	3.50E-01	1.5	2.88E-01	1.5
218	51.48	3.51E-01	1.5	1.37E-01	2.6
219	51.73	1.13E-01	3.7	2.99E-01	1.5
220	51.98	3.02E-01	1.8	2.62E-01	1.6
221	52.22	2.72E-01	1.8	2.65E-01	1.5
222	52.47	2.50E-01	1.9	2.39E-01	1.6
223	52.71	2.44E-01	1.8	2.22E-01	1.7
224	52.96	2.59E-01	1.7	2.24E-01	1.7
225	53.20	2.37E-01	1.8	2.31E-01	1.6
226	53.45	2.51E-01	1.7	2.47E-01	1.6
227	53.70	2.75E-01	1.6	2.59E-01	1.5
228	53.94	2.96E-01	1.5	2.93E-01	1.4
229	54.19	3.11E-01	1.4	3.34E-01	1.3
230	54.43	3.79E-01	1.2	1.92E-01	1.8
231	54.68	1.73E-01	2.0	2.34E-01	1.7
232	54.93	2.44E-01	1.7	2.61E-01	1.6
233	55.17	2.83E-01	1.6	2.67E-01	1.5
234	55.42	2.63E-01	1.7	2.43E-01	1.7
235	55.66	2.78E-01	1.6	2.46E-01	1.7

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
236	55.91	2.64E-01	1.7	2.52E-01	1.6
237	56.16	2.49E-01	1.7	2.48E-01	1.6
238	56.40	2.71E-01	1.6	2.35E-01	1.7
239	56.65	2.52E-01	1.7	2.45E-01	1.6
240	56.89	2.58E-01	1.6	2.66E-01	1.5
241	57.14	2.93E-01	1.4	2.95E-01	1.4
242	57.39	2.91E-01	1.4	1.20E-01	2.8
243	57.63	1.87E-01	2.0	2.41E-01	1.9
244	57.88	2.58E-01	1.6	2.72E-01	1.7
245	58.12	3.09E-01	1.5	2.36E-01	1.9
246	58.37	2.67E-01	1.7	2.39E-01	1.8
247	58.61	2.48E-01	1.8	2.29E-01	1.9
248	58.86	2.73E-01	1.7	2.13E-01	2.1
249	59.11	2.65E-01	1.8	2.26E-01	1.9
250	59.35	2.89E-01	1.6	2.41E-01	1.8
251	59.60	2.54E-01	1.7	2.30E-01	1.8
252	59.84	2.75E-01	1.6	2.45E-01	1.6
253	60.09	4.66E-02	2.7	9.23E-02	1.9
254	60.34	2.53E-01	1.4	2.03E-01	1.7
255	60.58	3.81E-01	1.2	2.64E-01	1.6
256	60.83	3.57E-01	1.3	2.65E-01	1.6
257	61.07	2.88E-01	1.5	2.43E-01	1.7
258	61.32	2.90E-01	1.5	2.20E-01	1.7
259	61.57	2.85E-01	1.4	2.38E-01	1.6
260	61.81	2.83E-01	1.4	2.30E-01	1.6
261	62.06	2.79E-01	1.4	3.33E-02	1.5
262	62.30	2.84E-01	1.3	3.33E-02	1.5
263	62.55	3.07E-01	1.2	3.37E-02	1.4
264	62.79	4.00E-01	1.0	3.92E-02	1.3
265	63.04	2.75E-01	1.2	2.97E-02	1.6
266	63.29	2.15E-01	1.4	2.40E-02	1.8
267	63.53	2.38E-01	1.3	4.06E-02	1.4
268	63.78	2.47E-01	1.3	4.03E-02	1.4
269	64.02	2.48E-01	1.3	3.90E-02	1.4
270	64.27	2.47E-01	1.2	3.72E-02	1.5
271	64.52	2.38E-01	1.3	3.71E-02	1.4
272	64.76	2.36E-01	1.2	3.74E-02	1.3
273	65.01	2.30E-01	1.3	3.66E-02	1.3
274	65.25	2.25E-01	1.2	3.66E-02	1.3
275	65.50	2.40E-01	1.2	3.68E-02	1.2
276	65.75	2.29E-01	1.2	3.68E-02	1.2
277	65.99	1.67E-01	1.5	3.15E-02	1.3
278	66.24	7.09E-02	2.4	1.99E-02	1.7
279	66.48	1.40E-01	1.7	1.62E-02	2.0
280	66.73	1.93E-01	1.4	1.89E-02	1.8
281	66.98	1.66E-01	1.5	2.10E-02	1.8
282	67.22	1.47E-01	1.6	2.45E-02	1.6

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
283	67.47	1.45E-01	1.6	2.41E-02	1.6
284	67.71	1.40E-01	1.6	2.31E-02	1.6
285	67.96	1.39E-01	1.6	2.27E-02	1.6
286	68.20	1.38E-01	1.6	2.24E-02	1.6
287	68.45	1.40E-01	1.5	2.10E-02	1.6
288	68.70	1.37E-01	1.5	1.96E-02	1.7
289	68.94	1.29E-01	1.6	1.73E-02	1.8
290	69.19	1.07E-01	1.8	1.57E-02	1.9
291	69.43	9.70E-02	1.9	1.64E-02	1.8
292	69.68	1.68E-01	1.4	2.21E-02	1.6
293	69.93	1.38E-01	1.6	1.99E-02	1.6
294	70.17	1.09E-01	1.8	1.62E-02	1.8
295	70.42	9.57E-02	1.9	1.41E-02	1.9
296	70.66	7.76E-02	2.1	1.25E-02	2.1
297	70.91	7.31E-02	2.1	1.23E-02	2.1
298	71.16	7.33E-02	2.1	1.17E-02	2.1
299	71.40	7.81E-02	2.0	1.11E-02	2.1
300	71.65	7.54E-02	2.0	1.15E-02	2.1
301	71.89	7.34E-02	2.1	1.23E-02	2.0
302	72.14	6.60E-02	2.2	1.41E-02	1.9
303	72.38	1.67E-02	6.4	9.71E-03	2.3
304	72.63	3.05E-03	****	1.19E-02	2.1
305	72.88	5.44E-02	2.5	1.38E-02	2.0
306	73.12	1.10E-01	1.8	1.39E-02	1.9
307	73.37	1.18E-01	1.7	1.44E-02	1.8
308	73.61	1.18E-01	1.7	1.36E-02	1.9
309	73.86	1.27E-01	1.6	1.32E-02	1.9
310	74.11	1.16E-01	1.7	1.23E-02	2.0
311	74.35	1.08E-01	1.7	1.26E-02	1.9
312	74.60	1.08E-01	1.7	3.18E-03	1.9
313	74.84	1.10E-01	1.6	2.99E-03	1.9
314	75.09	1.07E-01	1.7	2.38E-03	2.2
315	75.34	1.04E-01	1.0	1.35E-03	3.0
316	75.58	9.72E-02	1.0	5.06E-04	5.1
317	75.83	6.08E-02	1.4	4.19E-03	2.9
318	76.07	9.76E-03	4.4	3.99E-03	2.7
319	76.32	1.57E-02	2.4	3.70E-03	2.7
320	76.57	1.25E-02	2.7	3.36E-03	2.8
321	76.81	1.19E-02	2.6	2.89E-03	2.8
322	77.06	1.09E-02	2.7	1.98E-03	3.5
323	77.30	1.02E-02	2.8	1.70E-03	3.7
324	77.55	9.26E-03	2.8	1.57E-03	4.0
325	77.79	8.92E-03	2.9	1.33E-03	4.3
326	78.04	8.58E-03	3.0	1.57E-03	3.6
327	78.29	1.06E-02	2.6	1.51E-03	3.5
328	78.53	1.31E-02	2.4	1.74E-03	3.4
329	78.78	1.95E-02	1.9	3.99E-03	2.2

Table A-15 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
330	79.02	1.83E-02	2.2	5.09E-03	1.9
331	79.27	2.57E-02	1.7	5.30E-03	1.8
332	79.52	3.47E-02	1.4	4.35E-03	2.0
333	79.76	3.53E-02	1.3	1.03E-03	2.0
334	80.01	2.93E-02	1.4	1.01E-03	2.0
335	80.25	2.31E-02	1.6	8.37E-04	2.3
336	80.50	1.68E-02	1.9	7.13E-04	2.3
337	80.75	1.46E-02	2.0	6.07E-04	2.5
338	80.99	1.21E-02	2.2	5.63E-04	2.6
339	81.24	9.42E-03	2.5	5.32E-04	2.6
340	81.48	9.11E-03	2.4	3.45E-04	3.3
341	81.73	8.50E-03	2.6	1.06E-03	4.0
342	81.97	6.24E-03	3.1	1.80E-03	2.9
343	82.22	5.65E-03	3.4	1.35E-03	3.3
344	82.47	8.75E-03	2.6	1.04E-03	3.9
345	82.71	9.47E-03	2.3	1.04E-03	3.9
346	82.96	8.30E-03	2.6	1.12E-03	3.6
347	83.20	8.72E-03	2.4	1.30E-03	3.3
348	83.45	8.66E-03	2.4	1.40E-03	3.2
349	83.70	1.00E-02	2.2	1.92E-03	2.5
350	83.94	1.46E-02	1.8	2.02E-03	2.5
351	84.19	1.74E-02	1.0	8.33E-03	1.4
352	84.43	1.59E-02	1.1	3.70E-03	2.2
353	84.68	1.10E-02	1.3	8.81E-04	5.0
354	84.93	4.89E-03	1.9	3.72E-04	3.9
355	85.17	9.15E-04	5.8	5.61E-04	2.8
356	85.42	1.33E-03	3.8	5.44E-04	2.8
357	85.66	1.56E-03	3.2	5.36E-04	2.6
358	85.91	1.71E-03	3.0	4.45E-04	2.9
359	86.16	1.70E-03	3.0	2.88E-04	3.6
360	86.40	1.34E-03	3.3	2.13E-04	4.3
361	86.65	1.08E-03	3.7	1.42E-04	5.3
362	86.89	8.40E-04	4.2	1.05E-04	6.5
363	87.14	5.81E-04	5.2	8.49E-05	7.4
364	87.38	3.71E-04	6.1	4.12E-05	12.5
365	87.63	2.11E-04	10.5	8.17E-05	7.9
366	87.88	2.14E-04	8.8	8.28E-05	8.4
367	88.12	3.03E-04	7.3	1.27E-04	6.2
368	88.37	3.87E-04	6.4	1.62E-04	5.1
369	88.61	5.14E-04	5.9	6.99E-05	10.4
370	88.86	1.02E-03	4.0	8.03E-05	10.4
371	89.11	1.21E-03	4.0	8.15E-05	10.7
372	89.35	5.08E-04	7.4	6.85E-05	13.2
373	89.60	4.67E-04	8.0	7.41E-05	11.2
374	89.84	4.95E-04	8.8	4.10E-05	17.8

Table A-16. Axial distribution of ^{154}Eu in the spine of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.05E-03	1.9	3.61E-03	0.7
2	0.37	2.06E-02	6.8	5.12E-03	1.5
3	0.61	1.66E-03	2.7	1.94E-03	2.5
4	0.86	1.60E-03	2.3	1.92E-03	2.7
5	1.11	1.73E-03	2.6	1.56E-03	2.3
6	1.35	1.63E-03	2.9	1.40E-03	4.6
7	1.60	1.60E-03	3.3	1.20E-03	4.6
8	1.84	1.57E-03	3.5	3.35E-04	6.9
9	2.09	1.23E-03	4.4	8.03E-04	7.7
10	2.34	9.60E-04	6.8	6.69E-04	9.3
11	2.58	1.06E-03	5.9	3.49E-04	7.3
12	2.83	3.56E-04	7.3	6.93E-04	9.0
13	3.07	3.67E-04	6.9	6.38E-04	11.3
14	3.32	8.92E-04	7.2	5.53E-04	12.0
15	3.57	7.06E-04	9.0	5.07E-04	12.6
16	3.81	5.15E-04	11.3	6.22E-04	16.2
17	4.06	4.81E-04	14.1	4.49E-04	16.0
18	4.30	5.36E-04	11.4	3.79E-04	13.2
19	4.55	5.24E-04	14.5	5.50E-04	14.6
20	4.80	5.54E-04	13.5	6.06E-04	14.5
21	5.04	4.54E-04	17.1	3.39E-04	22.5
22	5.29	6.14E-04	13.4	6.72E-04	14.7
23	5.53	6.83E-04	12.1	5.29E-04	21.0
24	5.78	5.45E-04	15.4	4.63E-04	26.0
25	6.02	6.95E-04	14.4	4.91E-04	26.9
26	6.27	2.15E-04	37.8	7.62E-04	16.5
27	6.52	6.41E-04	16.6	2.38E-04	****
28	6.76	7.35E-04	14.0	3.15E-04	****
29	7.01	3.29E-04	29.6	3.32E-04	****
30	7.25	4.56E-04	27.9	3.49E-04	****
31	7.50	6.15E-04	20.7	6.92E-04	23.6
32	7.75	8.41E-04	14.6	6.32E-04	****
33	7.99	6.52E-04	17.2	1.60E-03	15.2
34	8.24	5.77E-04	18.6	8.64E-04	30.1
35	8.48	4.93E-04	24.7	1.92E-03	13.2
36	8.73	7.41E-04	19.7	2.04E-03	14.2
37	8.98	2.46E-03	11.3	1.50E-03	14.3
38	9.22	2.59E-03	11.4	1.50E-03	18.8
39	9.47	2.27E-03	11.2	1.57E-03	17.9
40	9.71	1.23E-03	19.0	1.01E-03	26.4
41	9.96	1.18E-03	20.0	1.20E-03	22.4
42	10.20	1.73E-03	15.7	1.02E-03	30.1
43	10.45	1.63E-03	17.6	1.08E-03	28.4
44	10.70	1.35E-03	19.0	1.39E-03	21.4
45	10.94	1.79E-03	14.4	8.98E-04	35.2
46	11.19	1.27E-03	23.0	9.10E-04	36.3
47	11.43	1.30E-03	22.9	1.08E-03	28.9
48	11.68	9.74E-04	27.6	1.29E-03	26.1
49	11.93	1.58E-03	19.1	1.35E-03	25.5
50	12.17	1.24E-03	21.8	1.08E-03	29.1
51	12.42	2.39E-03	11.5	2.56E-03	15.0

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
52	12.66	2.62E-03	10.5	2.91E-03	14.7
53	12.91	2.86E-03	10.5	2.77E-03	13.6
54	13.16	1.62E-03	16.4	1.33E-03	24.5
55	13.40	2.09E-03	12.9	1.90E-03	16.6
56	13.65	1.35E-03	15.6	2.03E-03	16.9
57	13.89	1.43E-03	18.2	1.60E-03	20.3
58	14.14	1.67E-03	15.8	2.03E-03	17.2
59	14.39	2.17E-03	11.5	2.60E-03	12.8
60	14.63	1.44E-03	19.6	2.36E-03	16.0
61	14.88	1.92E-03	15.3	1.39E-03	12.8
62	15.12	2.39E-03	11.9	2.15E-03	15.9
63	15.37	9.59E-04	29.3	2.39E-03	13.0
64	15.61	3.07E-03	10.9	2.40E-03	14.9
65	15.86	2.29E-03	13.1	4.87E-03	8.5
66	16.11	4.46E-03	7.7	4.21E-03	9.7
67	16.35	4.29E-03	8.5	2.38E-03	17.6
68	16.60	4.68E-03	7.3	2.33E-03	15.4
69	16.84	4.32E-03	7.9	2.70E-03	14.6
70	17.09	3.55E-03	10.1	2.45E-03	14.8
71	17.34	2.69E-03	13.9	2.25E-03	17.2
72	17.58	2.57E-03	12.2	1.62E-03	23.3
73	17.33	2.37E-03	13.8	1.50E-03	26.6
74	18.07	1.67E-03	21.0	1.62E-03	21.9
75	18.32	1.97E-03	19.9	1.85E-03	27.3
76	18.57	1.82E-03	24.8	2.44E-03	18.5
77	18.81	2.09E-03	20.7	4.23E-03	11.2
78	19.06	2.54E-03	17.0	2.18E-03	20.7
79	19.30	2.26E-03	18.4	3.46E-03	13.0
80	19.55	2.67E-03	16.9	4.00E-03	12.8
81	19.79	3.45E-03	12.6	3.27E-03	14.5
82	20.04	2.36E-03	16.9	3.43E-03	15.2
83	20.29	2.06E-03	22.4	1.93E-03	23.4
84	20.53	2.53E-03	19.8	3.14E-03	16.7
85	20.78	3.50E-03	14.3	3.44E-03	16.2
86	21.02	1.23E-03	****	1.86E-03	31.7
87	21.27	2.06E-03	28.2	3.18E-03	18.3
88	21.52	1.75E-03	36.2	1.47E-03	****
89	21.76	2.56E-03	25.8	3.54E-03	17.8
90	22.01	2.51E-03	27.5	1.53E-03	****
91	22.25	2.61E-03	28.2	1.53E-03	****
92	22.50	2.57E-03	26.8	1.61E-03	****
93	22.75	1.65E-03	****	3.29E-03	21.3
94	22.99	1.72E-03	****	1.62E-03	****
95	23.24	3.10E-03	25.1	1.76E-03	****
96	23.48	2.31E-03	32.1	2.95E-03	27.9
97	23.73	2.77E-03	27.2	2.93E-03	25.9
98	23.98	1.68E-03	34.8	2.12E-03	34.0
99	24.22	3.07E-03	24.1	2.32E-03	29.5
100	24.47	1.66E-03	****	1.47E-03	****
101	24.71	1.63E-03	****	2.34E-03	31.2
102	24.96	1.69E-03	****	3.42E-03	22.9

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
103	25.20	2.39E-03	35.2	3.09E-03	23.7
104	25.45	2.33E-03	39.6	2.92E-03	31.5
105	25.70	3.62E-03	27.3	2.67E-03	****
106	25.94	2.65E-03	35.5	4.10E-03	22.0
107	26.19	2.94E-03	32.8	4.27E-03	17.0
108	26.43	1.93E-03	****	3.93E-03	18.6
109	26.68	2.23E-03	35.7	2.71E-03	29.3
110	26.93	1.63E-03	33.4	4.36E-03	17.7
111	27.17	3.61E-03	23.1	4.91E-03	16.2
112	27.42	2.62E-03	25.2	5.10E-03	15.6
113	27.66	6.33E-03	14.3	1.60E-02	8.7
114	27.91	7.76E-03	16.9	9.62E-03	3.9
115	28.16	8.67E-03	10.1	7.51E-03	19.9
116	28.40	1.11E-02	7.8	7.74E-03	10.1
117	28.65	3.04E-03	10.0	8.39E-03	9.1
118	28.89	3.32E-03	9.4	7.17E-03	16.4
119	29.14	3.49E-03	9.1	8.27E-03	0.3
120	29.39	5.91E-03	11.6	6.61E-03	10.0
121	29.63	4.68E-03	13.9	7.33E-03	9.1
122	29.88	2.90E-03	14.1	4.49E-04	****
123	30.12	2.65E-03	27.0	2.99E-03	11.9
124	30.37	4.40E-03	14.6	4.29E-03	26.6
125	30.61	5.63E-03	11.6	1.37E-02	3.3
126	30.86	8.19E-03	8.6	3.67E-03	9.0
127	31.11	7.98E-03	9.7	8.14E-03	3.5
128	31.35	1.07E-02	7.5	6.89E-03	12.4
129	31.60	1.13E-02	6.9	1.53E-02	6.0
130	31.84	1.33E-02	6.2	1.11E-02	3.5
131	32.09	1.45E-02	5.6	1.22E-02	7.0
132	32.34	1.35E-02	6.1	1.43E-02	6.1
133	32.58	1.38E-02	6.4	1.31E-02	7.0
134	32.83	1.62E-02	5.7	1.31E-02	6.7
135	33.07	1.61E-02	5.3	1.51E-02	5.8
136	33.32	1.70E-02	5.5	1.55E-02	5.8
137	33.57	1.64E-02	5.5	1.73E-02	5.3
138	33.81	1.53E-02	5.6	1.64E-02	5.1
139	34.06	1.58E-02	5.7	1.33E-02	6.3
140	34.30	1.69E-02	5.3	1.41E-02	5.9
141	34.55	1.87E-02	5.0	1.64E-02	5.3
142	34.79	2.04E-02	4.6	1.90E-02	4.7
143	35.04	2.58E-02	3.8	1.64E-02	5.5
144	35.29	2.22E-02	4.4	2.08E-02	4.6
145	35.53	2.09E-02	4.6	2.07E-02	4.4
146	35.78	2.01E-02	4.6	1.96E-02	4.6
147	36.02	2.15E-02	4.4	2.05E-02	4.5
148	36.27	1.54E-02	5.6	1.88E-02	4.6
149	36.52	1.38E-02	5.9	1.50E-02	5.7
150	36.76	1.04E-02	7.5	1.39E-02	5.9
151	37.01	1.14E-02	6.9	1.64E-02	7.6
152	37.25	1.32E-02	6.4	8.38E-03	9.0
153	37.50	1.34E-02	6.0	1.11E-02	6.9

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
154	37.75	1.27E-02	6.5	9.14E-03	5.2
155	37.99	1.26E-02	6.4	1.24E-02	6.0
156	38.24	1.43E-02	5.5	1.33E-02	5.2
157	38.48	1.47E-02	5.7	1.43E-02	5.0
158	38.73	1.76E-02	4.0	1.74E-02	5.0
159	38.96	2.03E-02	4.4	2.12E-02	4.3
160	39.22	2.12E-02	4.3	2.35E-02	4.1
161	39.47	2.29E-02	3.9	3.09E-02	3.4
162	39.71	1.74E-02	4.7	2.36E-02	4.2
163	39.96	1.37E-02	5.6	1.94E-02	4.6
164	40.20	1.55E-02	5.1	1.29E-02	5.9
165	40.45	1.52E-02	5.1	1.22E-02	6.0
166	40.70	1.66E-02	4.5	1.42E-02	5.3
167	40.94	1.69E-02	4.6	1.30E-02	5.7
168	41.19	1.63E-02	4.5	1.50E-02	4.8
169	41.43	1.82E-02	4.2	1.45E-02	5.0
170	41.68	1.78E-02	4.2	1.70E-02	4.3
171	41.93	1.02E-02	4.1	1.55E-02	4.7
172	42.17	1.71E-02	4.4	1.60E-02	4.6
173	42.42	1.54E-02	4.6	1.50E-02	4.3
174	42.66	1.41E-02	4.9	1.47E-02	4.7
175	42.91	1.13E-02	5.9	1.25E-02	5.3
176	43.16	1.15E-02	5.7	1.21E-02	5.5
177	43.40	1.15E-02	5.5	1.32E-02	5.1
178	43.65	1.09E-02	6.0	1.25E-02	5.3
179	43.89	1.18E-02	5.5	1.23E-02	5.3
180	44.14	1.29E-02	5.0	1.26E-02	5.4
181	44.39	1.27E-02	5.4	1.25E-02	5.5
182	44.63	1.29E-02	5.1	1.37E-02	5.0
183	44.88	1.19E-02	5.5	1.37E-02	4.9
184	45.12	1.24E-02	5.3	1.40E-02	4.8
185	45.37	1.19E-02	5.5	1.45E-02	4.7
186	45.61	1.15E-02	5.6	1.42E-02	4.9
187	45.86	1.11E-02	5.7	1.32E-02	5.1
188	46.11	1.40E-02	4.4	1.21E-02	5.5
189	46.35	1.28E-02	4.9	1.10E-02	5.6
190	46.60	1.14E-02	5.2	1.23E-02	5.1
191	46.84	1.28E-02	4.7	1.20E-02	5.1
192	47.09	1.15E-02	5.2	1.26E-02	4.8
193	47.34	1.24E-02	4.7	1.25E-02	5.0
194	47.58	1.19E-02	5.0	1.25E-02	4.8
195	47.83	1.33E-02	4.5	1.29E-02	4.9
196	48.07	1.21E-02	4.7	1.25E-02	4.7
197	48.32	1.37E-02	4.4	1.30E-02	4.5
198	48.57	1.33E-02	4.4	1.24E-02	4.7
199	48.81	1.23E-02	4.6	1.24E-02	4.7
200	49.06	1.29E-02	4.3	1.21E-02	4.5
201	49.30	1.08E-02	5.1	1.19E-02	4.6
202	49.55	1.28E-02	4.3	1.11E-02	4.9
203	49.79	1.13E-02	4.8	1.15E-02	4.8
204	50.04	1.00E-02	5.6	1.13E-02	4.9

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
205	50.29	1.10E-02	4.9	1.13E-02	5.0
206	50.53	1.14E-02	4.8	1.31E-02	4.1
207	50.73	1.11E-02	4.3	1.30E-02	4.2
208	51.02	1.34E-02	4.3	1.29E-02	4.4
209	51.27	1.36E-02	4.2	1.21E-02	4.6
210	51.52	1.44E-02	4.0	1.35E-02	4.2
211	51.76	1.40E-02	4.1	1.31E-02	4.5
212	52.01	1.18E-02	4.4	1.30E-02	4.3
213	52.25	1.00E-02	5.2	1.33E-02	4.2
214	52.50	1.19E-02	4.4	1.23E-02	4.3
215	52.75	1.23E-02	4.3	1.21E-02	4.4
216	52.99	1.21E-02	4.4	1.19E-02	4.4
217	53.24	1.24E-02	4.4	1.67E-02	4.7
218	53.43	1.28E-02	4.2	1.30E-02	4.1
219	53.73	1.21E-02	4.3	1.17E-02	4.4
220	53.93	1.10E-02	4.7	1.16E-02	4.6
221	54.22	1.33E-02	4.1	1.20E-02	4.4
222	54.47	1.34E-02	4.2	1.32E-02	4.0
223	54.71	1.36E-02	4.1	1.27E-02	4.1
224	54.96	1.21E-02	4.5	1.27E-02	4.3
225	55.20	1.13E-02	4.3	1.13E-02	4.4
226	55.45	1.33E-02	4.1	1.13E-02	4.5
227	55.70	1.27E-02	4.2	1.08E-02	4.6
228	55.94	1.20E-02	4.4	1.29E-02	4.1
229	56.19	1.22E-02	4.4	1.19E-02	4.4
230	56.43	1.14E-02	4.3	1.29E-02	4.2
231	56.68	1.19E-02	4.4	1.24E-02	4.3
232	56.93	1.30E-02	4.2	1.20E-02	4.3
233	57.17	1.32E-02	4.1	1.19E-02	4.4
234	57.42	1.17E-02	4.6	1.24E-02	4.1
235	57.66	1.20E-02	4.3	1.19E-02	4.4
236	57.91	1.16E-02	4.4	1.17E-02	4.5
237	58.16	1.19E-02	4.5	1.16E-02	4.3
238	58.40	9.89E-03	5.1	1.13E-02	4.3
239	58.65	1.09E-02	4.8	1.09E-02	4.7
240	58.89	1.10E-02	4.8	1.13E-02	4.7
241	59.14	2.04E-02	3.5	4.60E-03	7.6
242	59.39	1.77E-02	3.7	1.84E-02	3.8
243	59.63	1.56E-02	3.9	1.52E-02	4.0
244	59.88	1.08E-02	4.7	1.46E-02	4.1
245	60.12	1.44E-02	4.1	1.33E-02	4.2
246	60.37	1.43E-02	4.0	1.33E-02	4.0
247	60.61	1.53E-02	3.3	1.54E-02	3.8
248	60.86	1.61E-02	3.6	1.45E-02	3.9
249	61.11	1.63E-02	3.6	1.29E-02	2.1
250	61.35	1.44E-02	1.9	1.30E-02	2.1
251	61.60	1.45E-02	1.9	1.46E-02	1.9
252	61.84	1.47E-02	1.8	1.52E-02	1.8
253	62.09	1.44E-02	1.8	1.48E-02	1.8
254	62.34	1.27E-02	1.9	1.50E-02	1.8
255	62.58	1.18E-02	2.0	1.30E-02	2.0

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
256	62.83	1.16E-02	1.9	1.25E-02	2.0
257	63.07	1.14E-02	2.0	1.26E-02	1.9
258	63.32	1.12E-02	2.0	1.23E-02	2.0
259	63.57	1.13E-02	2.0	1.23E-02	1.9
260	63.81	1.11E-02	1.9	1.23E-02	1.9
261	64.06	1.15E-02	1.9	1.19E-02	2.0
262	64.30	1.17E-02	1.9	1.27E-02	1.3
263	64.55	1.22E-02	1.8	1.27E-02	1.3
264	64.79	1.34E-02	1.7	1.31E-02	1.8
265	65.04	1.33E-02	1.7	1.35E-02	1.8
266	65.29	1.24E-02	1.8	1.35E-02	1.8
267	65.53	1.29E-02	1.8	1.24E-02	1.9
268	65.78	1.30E-02	1.8	1.41E-02	1.7
269	66.02	1.40E-02	1.7	1.45E-02	1.7
270	66.27	1.37E-02	1.7	1.41E-02	1.3
271	66.52	1.42E-02	1.7	1.45E-02	1.8
272	66.76	1.40E-02	1.7	1.50E-02	1.7
273	67.01	1.38E-02	1.7	1.55E-02	1.7
274	67.25	1.22E-02	1.8	1.46E-02	1.7
275	67.50	1.29E-02	1.7	1.41E-02	1.7
276	67.75	1.22E-02	1.8	1.35E-02	1.7
277	67.99	1.18E-02	1.8	1.21E-02	1.7
278	68.24	1.13E-02	1.9	1.20E-02	1.7
279	68.48	1.10E-02	1.9	1.20E-02	1.8
280	68.73	1.12E-02	1.8	1.16E-02	1.9
281	68.98	1.15E-02	1.8	1.08E-02	1.9
282	69.22	1.22E-02	1.7	1.00E-02	1.9
283	69.47	1.16E-02	1.7	9.75E-03	1.9
284	69.71	1.18E-02	1.7	9.37E-03	2.0
285	69.96	1.07E-02	1.8	9.39E-03	1.9
286	70.20	1.10E-02	1.8	9.64E-03	1.9
287	70.45	1.07E-02	1.8	9.06E-03	1.9
288	70.70	1.01E-02	1.9	9.03E-03	1.9
289	70.94	1.00E-02	1.9	8.56E-03	2.0
290	71.19	1.08E-02	1.8	9.58E-03	1.8
291	71.43	1.03E-02	1.8	1.01E-02	1.8
292	71.68	1.09E-02	1.7	9.93E-03	1.8
293	71.93	1.08E-02	1.7	9.69E-03	1.8
294	72.17	1.07E-02	1.7	9.45E-03	1.8
295	72.42	1.09E-02	1.7	8.81E-03	1.9
296	72.66	1.07E-02	1.7	8.40E-03	1.9
297	72.91	1.09E-02	1.7	8.27E-03	1.9
298	73.16	1.12E-02	1.6	8.72E-03	1.8
299	73.40	1.03E-02	1.7	8.67E-03	1.8
300	73.65	1.29E-02	1.1	1.08E-02	1.2
301	73.89	1.05E-02	1.2	1.08E-02	1.2
302	74.14	7.05E-03	1.3	9.62E-03	1.2
303	74.38	5.76E-03	1.4	6.39E-03	1.4
304	74.63	5.85E-03	1.3	5.31E-03	1.5
305	74.88	6.17E-03	1.2	5.60E-03	1.4
306	75.12	5.55E-03	1.3	5.37E-03	1.4

Table A-16 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
307	75.37	5.18E-03	1.3	4.57E-03	1.5
308	75.51	4.39E-03	1.4	3.92E-03	1.6
309	75.66	4.43E-03	1.4	3.16E-03	1.6
310	76.11	4.26E-03	1.4	2.54E-03	1.5
311	76.25	4.45E-03	1.4	2.56E-03	2.6
312	76.60	4.52E-03	1.3	2.61E-03	1.9
313	76.84	5.40E-03	1.3	2.97E-03	1.6
314	77.09	5.95E-03	1.2	3.24E-03	1.7
315	77.34	6.3E-03	1.2	3.66E-03	1.6
316	77.50	6.40E-03	1.2	3.75E-03	1.5
317	77.53	6.25E-03	1.2	4.29E-03	1.4
318	78.67	5.75E-03	1.4	4.23E-03	1.5
319	78.32	5.43E-03	1.2	3.69E-03	1.6
320	78.57	4.74E-03	1.3	3.71E-03	1.5
321	78.61	4.66E-03	1.4	4.16E-03	1.9
322	79.66	3.79E-03	1.5	2.70E-03	1.9
323	79.35	3.17E-03	1.6	3.73E-03	1.1
324	79.55	2.96E-03	1.9	2.90E-03	1.1
325	79.79	2.98E-03	1.6	2.96E-03	1.1
326	80.04	3.21E-03	1.9	3.24E-03	1.6
327	80.29	3.49E-03	1.6	3.27E-03	1.6
328	80.53	3.30E-03	1.1	4.02E-03	1.2
329	80.78	3.32E-03	1.1	4.64E-03	1.5
330	81.02	3.65E-03	1.9	5.05E-03	1.4
331	81.27	3.33E-03	1.1	5.70E-03	1.3
332	81.52	4.43E-03	1.9	5.72E-03	1.4
333	81.76	4.98E-03	0.9	6.16E-03	1.4
334	82.01	5.36E-03	0.9	7.51E-03	1.2
335	82.25	4.93E-03	0.9	7.32E-03	1.2
336	82.50	4.27E-03	0.9	7.05E-03	1.2
337	82.75	3.27E-03	1.0	5.92E-03	1.3
338	82.99	1.73E-03	1.3	4.40E-03	1.4
339	83.24	1.09E-03	1.5	3.19E-03	1.7
340	83.48	1.16E-03	1.6	2.22E-03	2.1
341	83.73	1.11E-03	1.5	2.69E-03	1.9
342	83.97	1.67E-03	1.5	2.32E-03	1.1
343	84.22	1.07E-03	1.5	1.01E-03	1.2
344	84.47	8.24E-04	1.6	2.06E-03	1.1
345	84.71	5.26E-04	2.6	1.71E-03	1.1
346	84.96	4.39E-04	2.1	9.10E-04	1.5
347	85.20	3.27E-04	2.6	6.74E-04	1.7
348	85.45	2.38E-04	3.0	5.11E-04	2.9
349	85.70	1.40E-04	4.0	3.94E-04	2.3
350	85.94	1.60E-04	3.6	2.24E-04	3.0
351	86.19	1.46E-04	3.9	2.03E-04	3.3
352	86.43	1.75E-04	3.4	2.15E-04	3.1
353	86.68	2.14E-04	3.0	2.63E-04	2.3
354	86.93	1.26E-04	4.2	2.56E-04	2.3
355	87.17	1.35E-04	3.9	1.37E-04	3.9
356	87.42	1.79E-04	3.3	1.14E-04	4.2
357	87.66	2.42E-04	2.9	1.22E-04	4.0
358	87.91	2.57E-04	2.8	2.70E-04	2.7

Table A-17. Axial distribution of ^{60}Co in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	7.42E-05	4.2	5.13E-05	5.0
2	0.37	9.25E-05	3.7	7.48E-05	4.0
3	0.61	8.95E-05	3.7	8.89E-05	3.6
4	0.86	1.10E-04	3.2	1.01E-04	3.3
5	1.11	1.27E-04	3.0	1.19E-04	3.1
6	1.35	1.39E-04	2.8	1.26E-04	3.1
7	1.60	1.46E-04	2.8	1.50E-04	2.8
8	1.84	1.62E-04	2.6	1.54E-04	2.8
9	2.09	1.57E-04	2.7	1.59E-04	2.7
10	2.34	1.49E-04	2.8	1.51E-04	2.8
11	2.58	1.29E-04	3.0	1.41E-04	2.9
12	2.83	1.18E-04	3.2	1.41E-04	2.8
13	3.07	1.11E-04	3.2	1.14E-04	3.3
14	3.32	1.01E-04	3.5	1.10E-04	3.3
15	3.57	1.00E-04	3.5	1.08E-04	3.3
16	3.81	1.01E-04	3.4	9.82E-05	3.5
17	4.06	9.01E-05	3.7	9.81E-05	3.5
18	4.30	8.65E-05	3.6	9.42E-05	3.5
19	4.55	8.64E-05	3.6	8.75E-05	3.6
20	4.80	8.49E-05	3.7	9.04E-05	3.6
21	5.04	1.03E-04	3.4	9.18E-05	3.6
22	5.29	1.00E-04	3.5	9.68E-05	3.6
23	5.53	1.21E-04	3.1	1.10E-04	3.3
24	5.78	1.24E-04	3.1	1.14E-04	3.2
25	6.02	1.37E-04	2.9	1.23E-04	3.1
26	6.27	1.53E-04	2.8	1.29E-04	3.1
27	6.52	1.84E-04	2.6	1.60E-04	2.8
28	6.76	1.93E-04	2.6	1.72E-04	2.7
29	7.01	2.21E-04	2.4	2.05E-04	2.5
30	7.25	2.72E-04	2.2	2.34E-04	2.4
31	7.50	2.95E-04	2.2	2.72E-04	2.2
32	7.75	3.00E-04	2.2	2.82E-04	2.3
33	7.99	3.38E-04	2.1	2.97E-04	2.3
34	8.24	3.40E-04	2.2	3.25E-04	2.2
35	8.48	4.15E-04	2.0	3.68E-04	2.2
36	8.73	5.20E-04	1.9	4.90E-04	1.9
37	8.98	7.81E-04	1.7	6.39E-04	1.9
38	9.22	1.10E-03	1.5	1.03E-03	1.5
39	9.47	5.58E-04	3.1	1.42E-03	1.4
40	9.71	9.77E-04	2.4	8.55E-04	2.8
41	9.96	8.50E-04	3.0	8.97E-04	2.8
42	10.20	8.21E-04	3.9	6.91E-04	4.2
43	10.45	9.94E-04	5.2	9.05E-04	16.0
44	10.70	5.89E-02	1.4	1.39E-02	3.2
45	10.94	2.45E+00	0.2	2.95E+00	0.2
46	11.19	1.69E-03	2.9	1.84E-03	2.8
47	11.43	1.56E-03	2.2	1.65E-03	2.1
48	11.68	2.03E-03	1.7	2.13E-03	1.7
49	11.93	2.80E-03	1.4	2.96E-03	1.3

Table A-17 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.10E-03	1.5	2.09E-03	1.6
51	12.42	2.29E-03	0.9	2.18E-03	1.0
52	12.66	1.89E-03	1.0	1.91E-03	1.0
53	12.91	1.86E-03	1.0	1.78E-03	1.0
54	13.16	2.33E-03	0.8	2.26E-03	0.9
55	13.40	2.29E-03	0.8	2.29E-03	0.8
56	13.65	2.28E-03	0.8	2.19E-03	0.8
57	13.89	2.21E-03	0.8	2.12E-03	0.8
58	14.14	2.22E-03	0.8	2.10E-03	0.8
59	14.39	2.10E-03	0.8	2.05E-03	0.8
60	14.63	2.02E-03	0.8	1.93E-03	0.9
61	14.88	1.92E-03	0.8	1.84E-03	0.9
62	15.12	1.77E-03	0.9	1.76E-03	0.9
63	15.37	1.81E-03	0.9	1.78E-03	0.9
64	15.61	1.80E-03	0.9	1.79E-03	0.9
65	15.86	1.77E-03	0.9	1.73E-03	0.9
66	16.11	1.87E-03	0.8	1.83E-03	0.8
67	16.35	1.92E-03	0.8	1.93E-03	0.8
68	16.60	1.87E-03	0.8	1.76E-03	0.9
69	16.84	1.90E-03	0.8	1.88E-03	0.8
70	17.09	1.96E-03	0.8	1.84E-03	0.8
71	17.34	1.91E-03	0.8	1.89E-03	0.8
72	17.58	1.90E-03	0.8	1.88E-03	0.8
73	17.83	2.04E-03	0.8	2.04E-03	0.8
74	18.07	2.13E-03	0.8	2.11E-03	0.8
75	18.32	1.96E-03	0.8	1.82E-03	0.9
76	18.57	1.94E-03	0.9	1.93E-03	0.8
77	18.81	1.90E-03	0.9	1.94E-03	0.9
78	19.06	1.92E-03	0.9	1.82E-03	0.9
79	19.30	1.86E-03	0.9	1.76E-03	0.9
80	19.55	1.79E-03	1.0	1.96E-03	0.9
81	19.79	6.61E-03	1.1	2.07E-03	0.9
82	20.04	1.92E-03	1.7	1.83E-03	1.1
83	20.29	1.88E-03	1.8	1.75E-03	1.3
84	20.53	4.64E-04	1.8	1.63E-03	1.2
85	20.78	1.30E-03	1.1	1.30E-03	1.1
86	21.02	1.20E-03	1.1	1.27E-03	1.1
87	21.27	1.34E-03	1.1	1.40E-03	1.0
88	21.52	1.32E-03	1.2	1.30E-03	1.1
89	21.76	4.86E-03	1.3	1.30E-03	1.1
90	22.01	1.58E-03	1.8	1.37E-03	1.2
91	22.25	1.84E-03	1.8	1.46E-03	1.2
92	22.50	1.55E-03	2.1	1.41E-03	1.3
93	22.75	5.77E-03	2.2	1.38E-03	3.4
94	22.99	1.50E-03	3.6	1.60E-03	3.3
95	23.24	1.22E-03	9.7	1.11E-03	7.1
96	23.48	5.59E-05	6.3	4.28E-04	36.1
97	23.73	4.21E-05	14.4	2.99E-05	****
98	23.98	4.15E-05	9.9	3.62E-05	26.0

Table A-18. Axial distribution of ^{106}Ru in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	3.87E-04	****	2.14E-04	****
2	0.37	4.08E-04	****	2.39E-04	****
3	0.61	2.20E-04	****	1.81E-04	****
4	0.86	2.13E-04	****	1.84E-04	****
5	1.11	2.08E-04	****	1.95E-04	****
6	1.35	2.17E-04	****	2.10E-04	****
7	1.60	2.26E-04	****	2.15E-04	****
8	1.84	2.38E-04	****	2.25E-04	****
9	2.09	2.49E-04	****	2.35E-04	****
10	2.34	2.46E-04	****	2.42E-04	****
11	2.58	2.61E-04	****	2.56E-04	****
12	2.83	2.57E-04	****	2.56E-04	****
13	3.07	2.63E-04	****	2.60E-04	****
14	3.32	2.61E-04	****	2.63E-04	****
15	3.57	2.58E-04	****	2.62E-04	****
16	3.81	2.53E-04	****	2.59E-04	****
17	4.06	2.47E-04	****	2.51E-04	****
18	4.30	2.49E-04	****	2.48E-04	****
19	4.55	2.52E-04	****	2.48E-04	****
20	4.80	2.57E-04	****	2.53E-04	****
21	5.04	2.66E-04	****	2.55E-04	****
22	5.29	3.37E-04	****	3.29E-04	****
23	5.53	2.84E-04	****	2.72E-04	****
24	5.78	2.96E-04	****	2.86E-04	****
25	6.02	3.14E-04	****	3.05E-04	****
26	6.27	3.40E-04	****	3.22E-04	****
27	6.52	3.68E-04	****	3.56E-04	****
28	6.76	4.04E-04	****	3.92E-04	****
29	7.01	4.59E-04	****	4.43E-04	****
30	7.25	5.25E-04	****	4.98E-04	****
31	7.50	5.84E-04	****	5.58E-04	****
32	7.75	6.67E-04	****	6.39E-04	****
33	7.99	7.64E-04	****	7.31E-04	****
34	8.24	8.76E-04	****	8.37E-04	****
35	8.48	1.01E-03	****	9.80E-04	****
36	8.73	1.20E-03	****	1.14E-03	****
37	8.98	1.43E-03	****	1.37E-03	****
38	9.22	1.69E-03	****	1.61E-03	****
39	9.47	2.76E-03	****	2.02E-03	****
40	9.71	3.40E-03	****	3.30E-03	****
41	9.96	4.33E-03	****	4.16E-03	****
42	10.20	5.76E-03	****	5.50E-03	****
43	10.45	9.70E-03	****	2.74E-02	****
44	10.70	5.46E-02	****	4.79E-02	****
45	10.94	1.52E-01	****	1.75E-01	****
46	11.19	6.63E-03	****	6.80E-03	****
47	11.43	4.58E-03	****	4.63E-03	****
48	11.68	3.61E-03	****	3.63E-03	****
49	11.93	3.04E-03	****	3.05E-03	****

Table A-18 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.56E-03	****	2.57E-03	****
51	12.42	1.64E-03	****	1.68E-03	****
52	12.66	1.42E-03	****	1.45E-03	****
53	12.91	1.25E-03	****	1.30E-03	****
54	13.16	1.16E-03	****	1.19E-03	****
55	13.40	1.03E-03	****	1.06E-03	****
56	13.65	9.57E-04	****	9.79E-04	****
57	13.89	8.76E-04	****	1.07E-03	39.1
58	14.14	8.18E-04	****	8.41E-04	****
59	14.39	7.67E-04	****	8.00E-04	****
60	14.63	7.18E-04	****	7.69E-04	****
61	14.88	6.79E-04	****	6.75E-04	35.5
62	15.12	6.50E-04	****	1.03E-03	25.4
63	15.37	6.28E-04	****	1.31E-03	21.2
64	15.61	6.22E-04	****	1.12E-03	28.4
65	15.86	6.01E-04	****	6.18E-04	****
66	16.11	6.08E-04	****	7.81E-04	37.1
67	16.35	6.19E-04	****	6.25E-04	****
68	16.60	6.15E-04	****	6.22E-04	****
69	16.84	6.28E-04	****	7.75E-04	38.0
70	17.09	6.27E-04	****	6.29E-04	****
71	17.34	6.25E-04	****	6.55E-04	****
72	17.58	6.34E-04	****	6.54E-04	****
73	17.83	6.60E-04	****	6.86E-04	****
74	18.07	6.90E-04	****	7.00E-04	****
75	18.32	7.19E-04	****	7.28E-04	****
76	18.57	7.42E-04	****	9.77E-04	36.2
77	18.81	8.07E-04	****	8.14E-04	****
78	19.06	8.75E-04	****	1.14E-03	35.8
79	19.30	1.00E-03	****	9.43E-04	****
80	19.55	1.71E-03	33.7	1.05E-03	****
81	19.79	5.40E-03	****	1.22E-03	****
82	20.04	2.94E-03	****	1.57E-03	****
83	20.29	3.48E-03	****	1.98E-03	****
84	20.53	7.96E-04	****	1.66E-03	****
85	20.78	1.00E-03	****	1.20E-03	38.0
86	21.02	7.61E-04	****	7.07E-04	****
87	21.27	8.57E-04	****	6.81E-04	****
88	21.52	1.12E-03	****	7.54E-04	****
89	21.76	5.13E-03	****	9.13E-04	****
90	22.01	2.51E-03	****	1.10E-03	****
91	22.25	3.09E-03	****	1.33E-03	****
92	22.50	3.73E-03	****	1.64E-03	****
93	22.75	1.49E-02	****	3.59E-03	****
94	22.99	6.49E-03	****	4.49E-03	****
95	23.24	2.64E-02	****	2.02E-02	****
96	23.48	9.16E-04	****	6.22E-02	24.3
97	23.73	2.06E-03	****	3.40E-03	****
98	23.98	1.44E-03	****	2.56E-03	****

Table A-19. Axial distribution of ^{110m}Ag in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	5.77E-05	****	4.44E-05	****
2	0.37	6.41E-05	****	4.98E-05	****
3	0.61	5.26E-05	****	5.19E-05	****
4	0.86	5.65E-05	****	5.40E-05	****
5	1.11	6.12E-05	****	6.00E-05	****
6	1.35	6.48E-05	****	6.17E-05	****
7	1.60	6.94E-05	****	6.57E-05	****
8	1.84	7.21E-05	****	7.34E-05	****
9	2.09	7.61E-05	****	7.48E-05	****
10	2.34	7.48E-05	****	7.97E-05	****
11	2.58	7.63E-05	****	7.75E-05	****
12	2.83	7.58E-05	****	8.06E-05	****
13	3.07	7.20E-05	****	7.69E-05	****
14	3.32	7.31E-05	****	7.23E-05	****
15	3.57	6.65E-05	****	7.28E-05	****
16	3.81	6.46E-05	****	6.78E-05	****
17	4.06	6.29E-05	****	6.39E-05	****
18	4.30	6.22E-05	****	6.32E-05	****
19	4.55	6.03E-05	****	5.89E-05	****
20	4.80	6.17E-05	****	6.13E-05	****
21	5.04	5.93E-05	****	5.94E-05	****
22	5.29	6.25E-05	****	6.09E-05	****
23	5.53	6.01E-05	****	6.19E-05	****
24	5.78	6.41E-05	****	6.20E-05	****
25	6.02	6.60E-05	****	6.24E-05	****
26	6.27	7.34E-05	****	6.94E-05	****
27	6.52	7.95E-05	****	7.49E-05	****
28	6.76	9.39E-05	****	8.66E-05	****
29	7.01	1.01E-04	****	1.21E-04	36.3
30	7.25	1.16E-04	****	1.08E-04	****
31	7.50	1.35E-04	****	1.26E-04	****
32	7.75	1.52E-04	****	1.45E-04	****
33	7.99	1.75E-04	****	1.66E-04	****
34	8.24	2.02E-04	****	1.93E-04	****
35	8.48	2.42E-04	****	2.30E-04	****
36	8.73	2.87E-04	****	2.71E-04	****
37	8.98	3.52E-04	****	3.37E-04	****
38	9.22	4.39E-04	****	4.11E-04	****
39	9.47	6.26E-04	****	5.34E-04	****
40	9.71	8.27E-04	****	7.89E-04	****
41	9.96	1.12E-03	****	1.07E-03	****
42	10.20	1.62E-03	****	1.52E-03	****
43	10.45	2.90E-03	****	7.05E-03	****
44	10.70	1.53E-02	****	1.28E-02	****
45	10.94	6.31E-02	****	7.30E-02	****
46	11.19	2.02E-03	****	2.09E-03	****
47	11.43	1.31E-03	****	1.31E-03	****
48	11.68	1.00E-03	****	1.00E-03	****
49	11.93	8.16E-04	****	8.07E-04	****

Table A-19 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	6.59E-04	****	6.39E-04	****
51	12.42	4.63E-04	****	4.61E-04	****
52	12.66	3.87E-04	****	3.94E-04	****
53	12.91	3.38E-04	****	3.43E-04	****
54	13.16	3.23E-04	****	3.24E-04	****
55	13.40	2.96E-04	****	2.97E-04	****
56	13.65	2.73E-04	****	2.73E-04	****
57	13.89	2.60E-04	****	2.55E-04	****
58	14.14	2.43E-04	****	2.40E-04	****
59	14.39	2.29E-04	****	2.33E-04	****
60	14.63	2.20E-04	****	2.20E-04	****
61	14.88	2.11E-04	****	2.13E-04	****
62	15.12	2.02E-04	****	2.11E-04	****
63	15.37	2.02E-04	****	2.09E-04	****
64	15.61	1.96E-04	****	2.04E-04	****
65	15.86	1.93E-04	****	1.94E-04	****
66	16.11	1.92E-04	****	1.96E-04	****
67	16.35	1.98E-04	****	1.98E-04	****
68	16.60	1.97E-04	****	2.01E-04	****
69	16.84	1.99E-04	****	2.09E-04	****
70	17.09	2.00E-04	****	2.00E-04	****
71	17.34	1.98E-04	****	2.01E-04	****
72	17.58	1.99E-04	****	2.01E-04	****
73	17.83	2.01E-04	****	2.13E-04	****
74	18.07	2.10E-04	****	2.13E-04	****
75	18.32	2.14E-04	****	2.13E-04	****
76	18.57	2.15E-04	****	2.17E-04	****
77	18.81	2.17E-04	****	2.25E-04	****
78	19.06	2.29E-04	****	2.32E-04	****
79	19.30	2.47E-04	****	2.36E-04	****
80	19.55	2.77E-04	****	2.55E-04	****
81	19.79	1.21E-03	****	2.82E-04	****
82	20.04	5.62E-04	****	3.40E-04	****
83	20.29	6.39E-04	****	4.23E-04	****
84	20.53	1.38E-04	****	3.44E-04	****
85	20.78	2.09E-04	****	2.06E-04	****
86	21.02	1.64E-04	****	1.66E-04	****
87	21.27	1.81E-04	****	1.65E-04	****
88	21.52	2.15E-04	****	1.72E-04	****
89	21.76	9.90E-04	****	1.87E-04	****
90	22.01	4.12E-04	****	2.10E-04	****
91	22.25	5.04E-04	****	2.49E-04	****
92	22.50	5.96E-04	****	2.74E-04	****
93	22.75	2.44E-03	****	6.31E-04	****
94	22.99	8.67E-04	****	6.43E-04	****
95	23.24	5.14E-03	****	3.46E-03	****
96	23.48	1.23E-04	****	6.87E-03	****
97	23.73	3.07E-04	****	6.38E-04	****
98	23.98	1.88E-04	****	4.48E-04	****

Table A-20. Axial distribution of ^{125}Sb in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	6.49E-05	****	3.28E-05	****
2	0.37	7.04E-05	****	3.89E-05	****
3	0.61	3.16E-05	****	2.63E-05	****
4	0.86	2.98E-05	****	2.62E-05	****
5	1.11	2.92E-05	****	2.67E-05	****
6	1.35	2.88E-05	****	2.70E-05	****
7	1.60	3.03E-05	****	2.88E-05	****
8	1.84	3.11E-05	****	3.00E-05	****
9	2.09	3.20E-05	****	3.11E-05	****
10	2.34	3.28E-05	****	3.21E-05	****
11	2.58	3.33E-05	****	3.28E-05	****
12	2.83	3.43E-05	****	3.41E-05	****
13	3.07	3.50E-05	****	3.48E-05	****
14	3.32	3.67E-05	****	3.61E-05	****
15	3.57	3.71E-05	****	3.65E-05	****
16	3.81	3.73E-05	****	3.72E-05	****
17	4.06	3.85E-05	****	3.75E-05	****
18	4.30	3.94E-05	****	3.86E-05	****
19	4.55	4.02E-05	****	3.99E-05	****
20	4.80	4.12E-05	****	4.03E-05	****
21	5.04	4.40E-05	****	4.20E-05	****
22	5.29	5.19E-05	****	5.08E-05	****
23	5.53	4.74E-05	****	4.65E-05	****
24	5.78	5.12E-05	****	5.00E-05	****
25	6.02	5.55E-05	****	5.35E-05	****
26	6.27	5.85E-05	****	5.84E-05	****
27	6.52	6.40E-05	****	6.22E-05	****
28	6.76	6.89E-05	****	6.64E-05	****
29	7.01	7.39E-05	****	7.16E-05	****
30	7.25	8.04E-05	****	7.90E-05	****
31	7.50	8.78E-05	****	8.57E-05	****
32	7.75	9.64E-05	****	9.41E-05	****
33	7.99	1.06E-04	****	1.04E-04	****
34	8.24	1.19E-04	****	1.16E-04	****
35	8.48	1.34E-04	****	1.30E-04	****
36	8.73	1.53E-04	****	1.49E-04	****
37	8.98	1.78E-04	****	1.71E-04	****
38	9.22	2.06E-04	****	1.97E-04	****
39	9.47	3.41E-04	****	2.37E-04	****
40	9.71	4.05E-04	****	3.95E-04	****
41	9.96	4.96E-04	****	4.78E-04	****
42	10.20	6.29E-04	****	6.03E-04	****
43	10.45	1.00E-03	****	3.09E-03	****
44	10.70	6.23E-03	****	5.56E-03	****
45	10.94	1.47E-02	****	1.67E-02	****
46	11.19	6.85E-04	****	7.06E-04	****
47	11.43	4.88E-04	****	4.94E-04	****
48	11.68	4.02E-04	****	4.02E-04	****
49	11.93	3.47E-04	****	3.49E-04	****

Table A-20 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.02E-04	****	3.03E-04	****
51	12.42	1.89E-04	****	1.95E-04	****
52	12.66	1.66E-04	****	1.73E-04	****
53	12.91	1.53E-04	****	1.60E-04	****
54	13.16	1.46E-04	****	1.53E-04	****
55	13.40	1.35E-04	****	1.39E-04	****
56	13.65	1.24E-04	****	1.29E-04	****
57	13.89	1.17E-04	****	1.21E-04	****
58	14.14	1.10E-04	****	1.15E-04	****
59	14.39	1.03E-04	****	1.10E-04	****
60	14.63	9.90E-05	****	1.11E-04	****
61	14.88	9.57E-05	****	1.06E-04	****
62	15.12	9.06E-05	****	1.10E-04	****
63	15.37	8.82E-05	****	1.08E-04	****
64	15.61	8.74E-05	****	9.78E-05	****
65	15.86	8.56E-05	****	8.74E-05	****
66	16.11	8.59E-05	****	8.88E-05	****
67	16.35	8.62E-05	****	8.61E-05	****
68	16.60	8.77E-05	****	8.80E-05	****
69	16.84	8.72E-05	****	8.81E-05	****
70	17.09	8.83E-05	****	9.02E-05	****
71	17.34	9.00E-05	****	1.15E-04	37.6
72	17.58	1.41E-04	30.5	9.46E-05	****
73	17.83	9.58E-05	****	9.79E-05	****
74	18.07	9.95E-05	****	1.50E-04	31.9
75	18.32	1.04E-04	****	1.56E-04	24.7
76	18.57	2.27E-04	22.8	2.93E-04	15.3
77	18.81	1.57E-04	25.9	1.76E-04	23.2
78	19.06	3.85E-04	12.5	2.61E-04	18.7
79	19.30	7.74E-04	8.1	4.77E-04	12.9
80	19.55	1.57E-03	5.0	6.51E-04	9.6
81	19.79	8.80E-03	3.8	1.18E-03	6.3
82	20.04	4.38E-03	4.4	2.19E-03	4.6
83	20.29	4.20E-03	5.4	2.71E-03	4.9
84	20.53	6.77E-04	7.6	2.46E-03	5.0
85	20.78	8.03E-04	8.0	1.29E-03	5.0
86	21.02	1.98E-04	21.8	1.41E-04	30.5
87	21.27	1.45E-04	****	1.89E-04	31.2
88	21.52	2.48E-04	34.4	1.32E-04	34.7
89	21.76	7.05E-04	34.6	2.33E-04	24.7
90	22.01	9.48E-04	20.9	2.73E-04	23.2
91	22.25	5.11E-04	****	2.72E-04	38.2
92	22.50	6.03E-04	****	2.60E-04	****
93	22.75	2.32E-03	****	6.08E-04	****
94	22.99	1.69E-03	30.0	7.40E-04	****
95	23.24	3.88E-03	****	3.07E-03	****
96	23.48	1.62E-04	****	4.65E-03	****
97	23.73	3.10E-04	****	4.86E-04	****
98	23.98	2.23E-04	****	3.77E-04	****

Table A-21. Axial distribution of ^{134}Cs in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	3.48E-03	0.6	7.40E-04	1.4
2	0.37	3.82E-03	0.6	8.58E-04	1.3
3	0.61	1.52E-04	3.8	9.33E-05	4.9
4	0.86	7.82E-05	6.0	6.99E-05	6.2
5	1.11	7.27E-05	6.3	5.53E-05	7.7
6	1.35	5.47E-05	8.4	4.41E-05	9.6
7	1.60	5.93E-05	7.8	5.08E-05	8.4
8	1.84	4.82E-05	9.7	5.36E-05	8.7
9	2.09	5.67E-05	8.5	7.05E-05	6.9
10	2.34	3.64E-05	12.6	4.34E-05	11.2
11	2.58	5.00E-05	9.0	3.07E-05	15.8
12	2.83	5.54E-05	9.6	2.70E-05	16.7
13	3.07	4.72E-05	10.2	4.46E-05	10.5
14	3.32	6.05E-05	8.4	3.97E-05	11.8
15	3.57	6.68E-05	7.9	5.00E-05	10.0
16	3.81	5.52E-05	8.8	3.67E-05	12.6
17	4.06	5.13E-05	9.7	3.85E-05	12.6
18	4.30	4.35E-05	11.3	3.45E-05	13.4
19	4.55	4.67E-05	10.5	4.08E-05	11.6
20	4.80	4.57E-05	10.5	4.20E-05	11.5
21	5.04	6.31E-05	8.7	4.36E-05	11.1
22	5.29	4.55E-05	13.4	4.04E-05	14.8
23	5.53	4.35E-05	12.3	3.69E-05	13.5
24	5.78	4.88E-05	11.5	4.39E-05	12.1
25	6.02	3.97E-05	14.3	3.12E-05	17.5
26	6.27	5.22E-05	14.0	4.13E-05	14.4
27	6.52	4.41E-05	15.1	3.34E-05	17.6
28	6.76	3.41E-05	20.3	3.46E-05	19.7
29	7.01	3.36E-05	21.4	2.23E-05	30.1
30	7.25	3.99E-05	20.9	3.90E-05	21.4
31	7.50	3.35E-05	28.1	3.96E-05	22.5
32	7.75	4.18E-05	34.5	4.42E-05	24.2
33	7.99	6.41E-05	25.6	5.18E-05	30.4
34	8.24	9.19E-05	20.2	4.53E-05	39.5
35	8.48	6.07E-05	35.9	5.36E-05	39.1
36	8.73	7.47E-05	34.0	5.18E-05	****
37	8.98	9.37E-05	32.2	6.21E-05	****
38	9.22	7.70E-05	****	7.22E-05	****
39	9.47	1.62E-04	35.9	8.99E-05	****
40	9.71	1.54E-04	****	1.47E-04	****
41	9.96	1.94E-04	****	1.86E-04	****
42	10.20	2.57E-04	****	2.45E-04	****
43	10.45	4.33E-04	****	1.21E-03	****
44	10.70	2.47E-03	****	2.17E-03	****
45	10.94	6.68E-03	****	7.66E-03	****
46	11.19	4.01E-04	34.8	7.32E-04	19.6
47	11.43	1.05E-03	7.9	1.01E-03	8.0
48	11.68	1.13E-03	5.9	1.50E-03	4.7
49	11.93	1.08E-03	5.4	1.55E-03	3.9

Table A-21 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	1.27E-03	4.2	1.86E-03	3.0
51	12.42	1.05E-03	3.6	1.63E-03	2.4
52	12.66	9.69E-04	3.2	1.71E-03	2.0
53	12.91	1.01E-03	2.6	1.87E-03	1.7
54	13.16	1.09E-03	2.6	2.14E-03	1.4
55	13.40	1.11E-03	2.2	1.89E-03	1.5
56	13.65	1.17E-03	1.9	1.90E-03	1.4
57	13.89	1.30E-03	1.7	1.93E-03	1.3
58	14.14	1.29E-03	1.6	2.07E-03	1.2
59	14.39	1.36E-03	1.5	2.22E-03	1.1
60	14.63	1.53E-03	1.3	2.98E-03	0.9
61	14.88	1.58E-03	1.3	2.88E-03	0.9
62	15.12	1.61E-03	1.2	3.73E-03	0.8
63	15.37	1.72E-03	1.1	4.10E-03	0.7
64	15.61	1.81E-03	1.1	2.91E-03	0.9
65	15.86	1.91E-03	1.1	2.13E-03	1.0
66	16.11	2.13E-03	1.0	2.45E-03	0.9
67	16.35	2.38E-03	0.9	2.46E-03	0.9
68	16.60	2.67E-03	0.9	2.81E-03	0.9
69	16.84	2.62E-03	0.9	2.83E-03	0.8
70	17.09	2.93E-03	0.8	3.03E-03	0.8
71	17.34	3.00E-03	0.8	3.49E-03	0.7
72	17.58	3.30E-03	0.8	3.48E-03	0.7
73	17.83	3.65E-03	0.7	4.05E-03	0.7
74	18.07	3.98E-03	0.7	4.34E-03	0.7
75	18.32	4.49E-03	0.7	5.14E-03	0.6
76	18.57	5.03E-03	0.6	5.46E-03	0.6
77	18.81	6.11E-03	0.6	6.25E-03	0.6
78	19.06	7.44E-03	0.5	7.84E-03	0.5
79	19.30	1.03E-02	0.5	8.76E-03	0.5
80	19.55	1.59E-02	0.4	1.07E-02	0.5
81	19.79	8.28E-02	0.3	1.47E-02	0.4
82	20.04	4.22E-02	0.4	2.41E-02	0.3
83	20.29	5.97E-02	0.3	3.61E-02	0.3
84	20.53	1.09E-02	0.4	2.74E-02	0.3
85	20.78	8.50E-03	0.5	8.64E-03	0.5
86	21.02	2.33E-03	1.1	2.25E-03	1.1
87	21.27	4.44E-03	0.8	1.41E-03	1.4
88	21.52	9.42E-03	0.5	2.01E-03	1.3
89	21.76	5.64E-02	0.4	3.29E-03	1.0
90	22.01	2.51E-02	0.5	4.85E-03	0.8
91	22.25	3.53E-02	0.4	5.57E-03	0.8
92	22.50	4.50E-02	0.4	5.34E-03	1.0
93	22.75	1.66E-01	0.4	3.31E-03	2.9
94	22.99	4.32E-02	0.7	3.29E-03	3.4
95	23.24	6.01E-01	0.3	3.95E-01	0.3
96	23.48	1.49E-02	0.3	7.59E-01	0.2
97	23.73	1.79E-02	0.5	4.34E-02	0.4
98	23.98	1.08E-02	0.5	4.08E-02	0.3

Table A-22. Axial distribution of ^{137}Cs in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.82E-03	0.5	5.88E-04	1.1
2	0.37	3.10E-03	0.5	7.15E-04	1.0
3	0.61	1.32E-04	2.7	6.96E-05	4.0
4	0.86	6.27E-05	4.6	5.70E-05	4.6
5	1.11	5.72E-05	4.8	4.62E-05	5.5
6	1.35	4.55E-05	6.0	4.62E-05	5.4
7	1.60	4.28E-05	6.4	4.11E-05	6.6
8	1.84	4.63E-05	6.1	5.14E-05	5.7
9	2.09	4.72E-05	6.1	5.03E-05	5.6
10	2.34	3.88E-05	7.3	3.71E-05	7.6
11	2.58	3.71E-05	8.0	2.97E-05	9.4
12	2.83	3.66E-05	8.1	2.76E-05	10.3
13	3.07	4.25E-05	7.0	2.73E-05	10.4
14	3.32	4.03E-05	7.3	3.27E-05	8.6
15	3.57	4.80E-05	6.0	3.84E-05	7.7
16	3.81	3.70E-05	7.5	3.24E-05	8.4
17	4.06	3.87E-05	7.4	2.79E-05	9.5
18	4.30	3.08E-05	8.9	2.81E-05	9.4
19	4.55	4.24E-05	6.9	3.46E-05	8.0
20	4.80	3.81E-05	7.3	3.65E-05	7.8
21	5.04	4.11E-05	7.2	3.19E-05	8.6
22	5.29	4.03E-05	8.4	4.37E-05	7.8
23	5.53	3.65E-05	8.3	3.38E-05	8.3
24	5.78	3.53E-05	9.3	2.85E-05	9.8
25	6.02	3.88E-05	8.4	2.91E-05	10.6
26	6.27	3.77E-05	9.3	3.71E-05	9.4
27	6.52	3.04E-05	11.7	2.97E-05	12.5
28	6.76	3.55E-05	11.4	3.67E-05	10.6
29	7.01	3.71E-05	11.4	3.91E-05	10.6
30	7.25	3.33E-05	13.8	3.02E-05	15.0
31	7.50	2.37E-05	20.7	4.29E-05	12.5
32	7.75	2.41E-05	23.8	2.93E-05	19.1
33	7.99	3.36E-05	25.6	2.44E-05	24.4
34	8.24	4.53E-05	21.8	2.41E-05	39.0
35	8.48	4.29E-05	26.8	2.36E-05	****
36	8.73	2.91E-05	****	4.12E-05	31.4
37	8.98	3.49E-05	****	7.10E-05	21.7
38	9.22	4.16E-05	****	5.27E-05	34.6
39	9.47	6.74E-05	****	4.90E-05	****
40	9.71	8.35E-05	****	8.04E-05	****
41	9.96	1.06E-04	****	1.02E-04	****
42	10.20	1.72E-04	39.1	1.35E-04	****
43	10.45	2.44E-04	****	6.82E-04	****
44	10.70	1.35E-03	****	1.17E-03	****
45	10.94	3.92E-03	****	4.46E-03	****
46	11.19	1.68E-04	****	4.84E-04	16.8
47	11.43	2.74E-04	15.1	4.89E-04	9.6
48	11.68	4.04E-04	9.3	7.68E-04	5.2
49	11.93	2.49E-04	11.4	6.56E-04	4.8

Table A-22 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	3.03E-04	8.5	7.87E-04	3.7
51	12.42	2.47E-04	6.9	6.76E-04	2.8
52	12.66	2.61E-04	5.4	8.86E-04	2.0
53	12.91	2.91E-04	4.6	9.68E-04	1.8
54	13.16	2.43E-04	4.8	1.06E-03	1.6
55	13.40	2.02E-04	5.2	8.54E-04	1.7
56	13.65	2.24E-04	4.6	8.48E-04	1.6
57	13.89	2.64E-04	3.7	8.61E-04	1.5
58	14.14	2.63E-04	3.5	9.26E-04	1.3
59	14.39	2.70E-04	3.2	1.12E-03	1.1
60	14.63	3.54E-04	2.5	1.73E-03	0.8
61	14.88	3.64E-04	2.4	1.61E-03	0.8
62	15.12	3.60E-04	2.3	2.41E-03	0.7
63	15.37	3.63E-04	2.3	2.70E-03	0.6
64	15.61	4.78E-04	1.8	1.58E-03	0.8
65	15.86	4.92E-04	1.8	7.84E-04	1.3
66	16.11	6.40E-04	1.5	9.90E-04	1.1
67	16.35	8.31E-04	1.2	9.04E-04	1.2
68	16.60	9.47E-04	1.1	1.06E-03	1.1
69	16.84	9.71E-04	1.1	1.03E-03	1.1
70	17.09	1.07E-03	1.0	1.34E-03	0.9
71	17.34	1.17E-03	1.0	1.57E-03	0.8
72	17.58	1.32E-03	0.9	1.55E-03	0.8
73	17.83	1.57E-03	0.8	1.84E-03	0.8
74	18.07	1.72E-03	0.8	2.19E-03	0.7
75	18.32	2.06E-03	0.7	2.61E-03	0.6
76	18.57	2.45E-03	0.7	2.90E-03	0.6
77	18.81	3.37E-03	0.6	3.42E-03	0.6
78	19.06	4.22E-03	0.5	4.72E-03	0.5
79	19.30	6.26E-03	0.4	5.37E-03	0.4
80	19.55	1.04E-02	0.3	6.72E-03	0.4
81	19.79	5.61E-02	0.3	9.33E-03	0.4
82	20.04	2.90E-02	0.3	1.59E-02	0.3
83	20.29	4.25E-02	0.3	2.48E-02	0.2
84	20.53	7.91E-03	0.3	1.85E-02	0.3
85	20.78	5.77E-03	0.4	5.66E-03	0.4
86	21.02	1.72E-03	0.9	1.54E-03	0.9
87	21.27	3.21E-03	0.6	1.07E-03	1.1
88	21.52	6.57E-03	0.4	1.35E-03	1.0
89	21.76	4.17E-02	0.3	2.42E-03	0.8
90	22.01	1.86E-02	0.4	3.47E-03	0.6
91	22.25	2.58E-02	0.4	3.99E-03	0.6
92	22.50	3.27E-02	0.3	3.88E-03	0.7
93	22.75	1.23E-01	0.3	2.28E-03	2.3
94	22.99	3.25E-02	0.6	2.35E-03	2.5
95	23.24	4.65E-01	0.2	2.94E-01	0.2
96	23.48	1.13E-02	0.3	5.52E-01	0.2
97	23.73	1.34E-02	0.4	3.11E-02	0.3
98	23.98	7.85E-03	0.4	2.89E-02	0.3

Table A-23. Axial distribution of ^{144}Ce in the bottom connector
of element FO5-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.91E-03	****	1.82E-03	****
2	0.37	3.05E-03	****	2.13E-03	****
3	0.61	2.09E-03	****	1.88E-03	****
4	0.86	2.06E-03	****	2.03E-03	****
5	1.11	2.23E-03	****	2.12E-03	****
6	1.35	2.42E-03	****	2.29E-03	****
7	1.60	2.40E-03	****	2.40E-03	****
8	1.84	2.66E-03	****	2.52E-03	****
9	2.09	2.71E-03	****	2.68E-03	****
10	2.34	2.80E-03	****	2.84E-03	****
11	2.58	2.82E-03	****	2.95E-03	****
12	2.83	2.84E-03	****	3.00E-03	****
13	3.07	2.86E-03	****	2.97E-03	****
14	3.32	2.88E-03	****	2.89E-03	****
15	3.57	2.78E-03	****	2.87E-03	****
16	3.81	2.79E-03	****	2.79E-03	****
17	4.06	2.66E-03	****	2.77E-03	****
18	4.30	2.58E-03	****	2.68E-03	****
19	4.55	2.57E-03	****	2.64E-03	****
20	4.80	2.60E-03	****	2.61E-03	****
21	5.04	2.67E-03	****	2.69E-03	****
22	5.29	3.22E-03	****	3.21E-03	****
23	5.53	2.97E-03	****	2.79E-03	****
24	5.78	2.99E-03	****	2.84E-03	****
25	6.02	3.29E-03	****	3.10E-03	****
26	6.27	3.59E-03	****	3.24E-03	****
27	6.52	3.79E-03	****	3.66E-03	****
28	6.76	4.16E-03	****	3.98E-03	****
29	7.01	4.59E-03	****	4.42E-03	****
30	7.25	5.20E-03	****	4.84E-03	****
31	7.50	5.91E-03	****	5.50E-03	****
32	7.75	6.88E-03	****	6.43E-03	****
33	7.99	7.79E-03	****	7.41E-03	****
34	8.24	9.11E-03	****	8.57E-03	****
35	8.48	1.05E-02	****	1.01E-02	****
36	8.73	1.24E-02	****	1.20E-02	****
37	8.98	1.51E-02	****	1.46E-02	****
38	9.22	1.82E-02	****	1.73E-02	****
39	9.47	2.92E-02	****	2.20E-02	****
40	9.71	3.67E-02	****	5.13E-02	32.3
41	9.96	4.72E-02	****	4.54E-02	****
42	10.20	6.43E-02	****	6.13E-02	****
43	10.45	1.11E-01	****	2.91E-01	****
44	10.70	5.93E-01	****	5.19E-01	****
45	10.94	1.81E+00	****	2.08E+00	****
46	11.19	7.54E-02	****	7.74E-02	****
47	11.43	5.13E-02	****	5.16E-02	****
48	11.68	4.02E-02	****	4.01E-02	****
49	11.93	3.30E-02	****	3.29E-02	****

Table A-23 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.75E-02	****	2.74E-02	****
51	12.42	1.80E-02	****	1.83E-02	****
52	12.66	1.53E-02	****	1.57E-02	****
53	12.91	1.35E-02	****	1.39E-02	****
54	13.16	1.24E-02	****	1.27E-02	****
55	13.40	1.11E-02	****	1.12E-02	****
56	13.65	1.00E-02	****	1.03E-02	****
57	13.89	9.23E-03	****	9.39E-03	****
58	14.14	8.67E-03	****	8.88E-03	****
59	14.39	8.07E-03	****	8.38E-03	****
60	14.63	7.64E-03	****	8.41E-03	32.0
61	14.88	7.27E-03	****	1.59E-02	22.8
62	15.12	7.03E-03	****	1.61E-02	22.3
63	15.37	6.80E-03	****	8.59E-03	30.4
64	15.61	6.69E-03	****	7.15E-03	****
65	15.86	6.57E-03	****	6.59E-03	****
66	16.11	6.42E-03	****	1.10E-02	27.7
67	16.35	6.48E-03	****	6.65E-03	****
68	16.60	6.49E-03	****	6.58E-03	****
69	16.84	6.46E-03	****	6.66E-03	****
70	17.09	6.46E-03	****	6.65E-03	****
71	17.34	6.51E-03	****	6.72E-03	****
72	17.58	6.66E-03	****	6.75E-03	****
73	17.83	6.74E-03	****	6.99E-03	****
74	18.07	6.95E-03	****	7.16E-03	****
75	18.32	7.15E-03	****	7.31E-03	****
76	18.57	7.33E-03	****	7.45E-03	****
77	18.81	7.67E-03	****	7.94E-03	****
78	19.06	8.33E-03	****	1.37E-02	28.8
79	19.30	9.21E-03	****	1.34E-02	30.7
80	19.55	1.10E-02	****	1.94E-02	23.2
81	19.79	6.55E-02	34.9	1.31E-02	39.8
82	20.04	2.40E-02	****	1.64E-02	40.0
83	20.29	2.88E-02	****	1.78E-02	****
84	20.53	6.23E-03	****	1.46E-02	****
85	20.78	8.81E-03	****	8.80E-03	****
86	21.02	6.87E-03	****	6.72E-03	****
87	21.27	7.71E-03	****	6.42E-03	****
88	21.52	9.66E-03	****	7.01E-03	****
89	21.76	4.61E-02	****	8.12E-03	****
90	22.01	2.06E-02	****	9.88E-03	****
91	22.25	2.53E-02	****	1.20E-02	****
92	22.50	3.00E-02	****	1.45E-02	****
93	22.75	1.23E-01	****	2.83E-02	****
94	22.99	4.72E-02	****	3.43E-02	****
95	23.24	2.27E-01	****	1.68E-01	****
96	23.48	6.80E-03	****	2.91E-01	****
97	23.73	1.67E-02	****	3.01E-02	****
98	23.98	1.12E-02	****	2.18E-02	****

Table A-24. Axial distribution of ^{154}Eu in the bottom connector
of element F05-05
(corrected to October 31, 1974)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
1	0.12	2.49E-05	17.8	6.64E-06	****
2	0.37	3.75E-05	11.9	7.94E-06	****
3	0.61	8.73E-06	****	7.39E-06	****
4	0.86	8.21E-06	****	8.12E-06	****
5	1.11	9.15E-06	****	8.17E-06	****
6	1.35	9.24E-06	****	8.82E-06	****
7	1.60	8.37E-06	****	9.14E-06	****
8	1.84	9.20E-06	****	9.94E-06	****
9	2.09	9.40E-06	****	1.01E-05	****
10	2.34	8.66E-06	****	9.16E-06	****
11	2.58	8.63E-06	****	9.47E-06	****
12	2.83	8.64E-06	****	8.16E-06	****
13	3.07	7.73E-06	****	8.17E-06	****
14	3.32	8.30E-06	39.7	7.57E-06	****
15	3.57	5.64E-06	****	7.39E-06	****
16	3.81	7.07E-06	****	6.24E-06	****
17	4.06	6.07E-06	****	6.98E-06	****
18	4.30	6.14E-06	****	5.73E-06	****
19	4.55	5.56E-06	****	7.26E-06	31.7
20	4.80	5.45E-06	****	6.87E-06	31.5
21	5.04	6.21E-06	****	5.60E-06	****
22	5.29	5.68E-06	****	5.48E-06	****
23	5.53	6.61E-06	****	6.43E-06	****
24	5.78	6.08E-06	****	5.88E-06	****
25	6.02	6.02E-06	****	7.15E-06	****
26	6.27	8.92E-06	38.2	7.16E-06	****
27	6.52	7.84E-06	****	7.81E-06	****
28	6.76	9.30E-06	****	7.44E-06	****
29	7.01	1.02E-05	****	8.95E-06	****
30	7.25	1.14E-05	****	9.99E-06	****
31	7.50	1.17E-05	****	1.05E-05	****
32	7.75	1.34E-05	****	1.26E-05	****
33	7.99	1.54E-05	****	1.50E-05	****
34	8.24	1.82E-05	****	1.64E-05	****
35	8.48	2.27E-05	****	2.02E-05	****
36	8.73	2.72E-05	****	2.58E-05	****
37	8.98	3.50E-05	****	3.24E-05	****
38	9.22	4.66E-05	****	4.24E-05	****
39	9.47	4.83E-05	****	5.83E-05	****
40	9.71	7.29E-05	****	6.59E-05	****
41	9.96	1.10E-04	****	9.50E-05	****
42	10.20	1.85E-04	****	1.68E-04	****
43	10.45	3.60E-04	****	9.30E-04	****
44	10.70	1.66E-03	****	1.47E-03	****
45	10.94	5.81E-03	****	6.78E-03	****
46	11.19	2.89E-04	****	2.89E-04	****
47	11.43	4.05E-04	18.0	1.63E-04	****
48	11.68	2.55E-04	19.1	2.02E-04	24.8
49	11.93	1.64E-04	19.7	2.50E-04	15.1

Table A-24 (continued)

Location	Distance (in.)	Plane 1		Plane 2	
		Inventory (Ci/3 in.)	Error (%)	Inventory (Ci/3 in.)	Error (%)
50	12.17	2.18E-04	13.3	2.20E-04	12.5
51	12.42	1.48E-04	17.4	1.38E-04	15.3
52	12.66	1.01E-04	17.6	1.63E-04	11.7
53	12.91	1.55E-04	10.8	1.49E-04	11.2
54	13.16	1.79E-04	9.0	1.95E-04	8.7
55	13.40	1.72E-04	8.7	1.64E-04	9.5
56	13.65	1.61E-04	8.9	1.81E-04	8.4
57	13.89	1.77E-04	7.9	1.94E-04	7.3
58	14.14	1.94E-04	7.1	1.84E-04	7.3
59	14.39	1.38E-04	9.3	2.03E-04	6.7
60	14.63	2.14E-04	5.9	2.34E-04	5.8
61	14.88	1.87E-04	6.6	2.48E-04	5.3
62	15.12	2.13E-04	5.8	2.85E-04	4.8
63	15.37	2.16E-04	5.5	2.23E-04	6.0
64	15.61	1.86E-04	6.4	2.41E-04	5.3
65	15.86	2.12E-04	5.5	2.26E-04	5.1
66	16.11	2.33E-04	5.2	2.51E-04	4.8
67	16.35	2.27E-04	5.4	2.67E-04	4.7
68	16.60	2.33E-04	5.5	2.56E-04	4.7
69	16.84	2.50E-04	5.0	2.89E-04	4.4
70	17.09	2.68E-04	4.6	2.43E-04	5.1
71	17.34	2.94E-04	4.4	2.69E-04	4.7
72	17.58	2.61E-04	4.8	2.78E-04	4.7
73	17.83	3.01E-04	4.5	2.78E-04	4.9
74	18.07	3.25E-04	4.2	3.26E-04	4.2
75	18.32	3.03E-04	4.6	3.08E-04	4.5
76	18.57	3.89E-04	3.9	3.11E-04	4.6
77	18.81	3.53E-04	4.3	3.28E-04	4.5
78	19.06	3.90E-04	4.1	3.49E-04	4.4
79	19.30	4.03E-04	4.3	3.75E-04	4.4
80	19.55	4.24E-04	4.5	3.18E-04	5.4
81	19.79	1.37E-03	6.1	3.40E-04	5.3
82	20.04	7.61E-04	5.5	4.72E-04	4.9
83	20.29	6.91E-04	6.5	4.42E-04	6.8
84	20.53	1.78E-04	5.5	4.62E-04	5.3
85	20.78	3.85E-04	4.3	3.66E-04	4.4
86	21.02	3.32E-04	4.2	2.88E-04	4.7
87	21.27	2.41E-04	5.9	2.90E-04	4.6
88	21.52	2.72E-04	5.9	2.47E-04	5.5
89	21.76	9.52E-04	7.2	2.72E-04	5.4
90	22.01	3.80E-04	8.3	2.22E-04	7.0
91	22.25	3.23E-04	10.7	2.80E-04	6.5
92	22.50	3.24E-04	11.0	2.54E-04	7.5
93	22.75	1.12E-03	13.3	4.10E-04	13.1
94	22.99	4.77E-04	13.8	3.81E-04	12.9
95	23.24	1.33E-03	20.7	1.68E-03	12.9
96	23.48	2.65E-05	26.2	1.37E-03	33.5
97	23.73	1.05E-04	17.2	8.46E-05	****
98	23.98	7.83E-05	12.9	5.90E-05	****

1

2

3

4

5

ORNL/TM-6455
Dist. Category UC-77

INTERNAL DISTRIBUTION

1-4. F. F. Dyer	28-29. Central Research Library
5. L. L. Fairchild	30. Document Reference Section
6. M. J. Haire	31. Laboratory Records, ORNL-RC
7-16. P. R. Kasten	32-35. Laboratory Records
17. W. J. Lackey	36. ORNL Patent Section
18. E. L. Long, Jr.	37. G. R. Choppin (consultant)
19. R. A. Lorenz	38. L. James Colby, Jr. (consultant)
20. A. P. Malinauskas	39. E. L. Gaden, Jr. (consultant)
21. M. G. Stewart	40. L. E. Swabb, Jr. (consultant)
22-27. R. P. Wichner	41. K. D. Timmerhaus (consultant)

EXTERNAL DISTRIBUTION

- 42. Office of Assistant Manager, Energy Research and Development, DOE-ORO
- 43. Director, Nuclear Research and Development Division, DOE-ORO
- 44-45. Director, Division of Reactor Research and Technology, DOE, Washington, DC 20545
- 46-222. Given distribution as shown in TID-4500 under Gas-Cooled Reactor Technology category